



September 17, 2021

Andy Warnick
Rosemont Copper Company
5255 East Williams Circle, Suite W1065
Tucson, AZ 85711

TEL (520) 400-0085
FAX (520) 495-3540

Work Order No.: 2110062
Order Name: Baseline Stormwater
Monitoring

RE: Baseline Stormwater Monitoring

Dear Andy Warnick,

Turner Laboratories, Inc. received 10 sample(s) on 09/01/2021 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Date Received: 09/01/2021

Order: Baseline Stormwater Monitoring

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
21I0062-01	MCC1-09121	Storm Water	09/01/2021 0737
21I0062-02	CW1-09121	Storm Water	09/01/2021 0930
21I0062-03	D1-19-09121	Storm Water	09/01/2021 1120
21I0062-04	D1-19Barrel-09121	Storm Water	09/01/2021 1130
21I0062-05	WGHS-UP-09121	Storm Water	09/01/2021 1210
21I0062-06	WGHS-D-09121	Storm Water	09/01/2021 1215
21I0062-07	WGHS-W-09121	Storm Water	09/01/2021 1230
21I0062-08	NH-09121	Storm Water	09/01/2021 1310
21I0062-09	ONH-09121	Storm Water	09/01/2021 1340
21I0062-10	SCR-RR-09121	Storm Water	09/01/2021 1415

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Date Received: 09/01/2021

Case Narrative

- B1 Target analyte detected in the method blank at or above the method reporting limit.
- B5 Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
- B7 Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
- C4 Confirmatory analysis was past holding time
- D1 Sample required dilution due to matrix.
- E4 Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.
- E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
- H5 This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
- M2 Matrix spike recovery was low; the associated LCS/LCSD was acceptable.
- M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS/LCSD recovery was acceptable.
- N4 The Minimum Reporting Limit (MRL) verification check did not meet laboratory acceptance limits.
- Q9 Insufficient sample received to meet method QC requirements.
- R12 RPD/RSD exceeded the method acceptance limit. Result less than 5 times the PQL.
- All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.
- ND Not Detected at or above the PQL
- PQL Practical Quantitation Limit
- DF Dilution Factor

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-01

Client Sample ID: MCC1-09121
Collection Date/Time: 09/01/2021 0737
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	91		22		mg/L	1	09/13/2021 1025	09/14/2021 1234	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	270				mg/L	1	09/06/2021 0735	09/07/2021 0945	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	8.1				mg/L	10	09/07/2021 1600	09/09/2021 0031	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	0.84		0.10		mg/L	1	09/01/2021 1614	09/09/2021 0031	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.018	0.0032	0.10	E4	mg/L	1	09/13/2021 1025	09/14/2021 1234	MH
Calcium	27		4.0		mg/L	1	09/13/2021 1025	09/14/2021 1234	MH
Iron	ND		0.30		mg/L	1	09/13/2021 1025	09/14/2021 1234	MH
Magnesium	5.6		3.0		mg/L	1	09/13/2021 1025	09/14/2021 1234	MH
Potassium	ND		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1234	MH
Silica	13		0.20		mg/L	1	09/13/2021 1025	09/14/2021 1234	MH
Sodium	ND		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1234	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	ND		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1317	CR
Antimony	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1317	CR
Arsenic	0.0024		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1317	CR
Barium	0.017		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1317	CR
Beryllium	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1317	CR
Cadmium	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1317	CR
Chromium	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1317	CR
Cobalt	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1317	CR
Copper	0.040		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1317	CR
Lead	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1317	CR
Manganese	0.0090		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1317	CR
Molybdenum	0.032		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1317	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-01

Client Sample ID: MCC1-09121
Collection Date/Time: 09/01/2021 0737
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Nickel	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1317	CR
Selenium	0.00039	0.00025	0.0025	E4	mg/L	1	09/13/2021 1025	09/15/2021 1317	CR
Silver	0.00034	0.000021	0.00050	E4	mg/L	1	09/13/2021 1025	09/15/2021 1317	CR
Thallium	ND	0.000023	0.00050	E8	mg/L	1	09/13/2021 1025	09/15/2021 1317	CR
Zinc	ND		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1317	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	ND	0.000041	0.0010	E8	mg/L	1	09/14/2021 0915	09/14/2021 1305	MH
Turbidity-E180.1									
Turbidity	1900		10		NTU	100	09/02/2021 1620	09/02/2021 1711	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.081	0.0032	0.10	E4	mg/L	1	09/06/2021 0735	09/07/2021 0945	MH
Calcium	55		4.0		mg/L	1	09/06/2021 0735	09/07/2021 0945	MH
Iron	46		0.30		mg/L	1	09/06/2021 0735	09/07/2021 0945	MH
Magnesium	32		3.0		mg/L	1	09/06/2021 0735	09/07/2021 0945	MH
Potassium	10		5.0		mg/L	1	09/06/2021 0735	09/07/2021 0945	MH
Silica	190		2.0		mg/L	10	09/06/2021 0735	09/07/2021 1241	MH
Sodium	ND		5.0		mg/L	1	09/06/2021 0735	09/07/2021 0945	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	48		4.0		mg/L	100	09/03/2021 1200	09/08/2021 1211	CR
Antimony	ND		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1222	CR
Arsenic	0.025		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1222	CR
Barium	0.24		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1222	CR
Beryllium	0.0062		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1222	CR
Cadmium	0.0037		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1222	CR
Chromium	0.031		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1222	CR
Cobalt	0.0226		0.000250		mg/L	1	09/03/2021 1200	09/07/2021 1222	CR
Copper	20		0.050		mg/L	100	09/03/2021 1200	09/08/2021 1211	CR
Lead	0.045		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1222	CR
Manganese	2.9		0.0013		mg/L	5	09/03/2021 1200	09/08/2021 1252	CR
Molybdenum	0.016		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1222	CR
Nickel	0.027		0.00050	B7	mg/L	1	09/03/2021 1200	09/07/2021 1222	CR
Selenium	0.025		0.0025		mg/L	1	09/03/2021 1200	09/07/2021 1222	CR
Silver	0.0074		0.0025		mg/L	5	09/03/2021 1200	09/08/2021 1252	CR
Thallium	0.00062		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1222	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-01

Client Sample ID: MCC1-09121
Collection Date/Time: 09/01/2021 0737
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Uranium	0.0062		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1222	CR
Zinc	1.1		0.20		mg/L	5	09/03/2021 1200	09/08/2021 1252	CR

CVAA Total Mercury-E245.1

Mercury	ND	0.00071	0.0020	E8	mg/L	1	09/07/2021 0830	09/07/2021 1308	MH
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Anions by Ion Chromatography-E300.0 (2.1)

Chloride	1.5		1.0		mg/L	1	09/01/2021 1614	09/09/2021 0031	JG
Fluoride	1.4		0.50		mg/L	1	09/01/2021 1614	09/03/2021 0725	JG
Nitrogen, Nitrate (As N)	0.84		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0031	JG
Nitrogen, Nitrite (As N)	ND		0.10	C4	mg/L	1	09/01/2021 1614	09/09/2021 0031	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0031	JG
Sulfate	28		5.0		mg/L	1	09/01/2021 1614	09/09/2021 0031	JG

Calculation-Ion Balance

Anion	3.70				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation	1.81				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation/Anion, % Difference	34.3				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB

Total Kjeldahl Nitrogen-PAI-DK01

Nitrogen, Total Kjeldahl	7.3		5.0		mg/L	10	09/07/2021 1600	09/08/2021 1242	JG
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Alkalinity-SM2320B

Alkalinity, Bicarbonate (As CaCO3)	130		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Total (As CaCO3)	130		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC

Specific Conductance-SM2510 B

Conductivity	220		0.10		µmhos/cm	1	09/10/2021 1145	09/10/2021 1220	CWB
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Total Dissolved Solids (Residue, Filterable)-SM2540 C

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-01

Client Sample ID: MCC1-09121
Collection Date/Time: 09/01/2021 0737
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Dissolved Solids (Residue, Filterable)									
Total Dissolved Solids (Residue, Filterable)	360		20		mg/L	1	09/07/2021 0830	09/13/2021 1640	AGC
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	1300		10		mg/L	1	09/07/2021 0828	09/13/2021 1618	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	09/07/2021 1100	09/07/2021 1623	JG
Silica-SM4500-SiO2 C									
Silica	13		2.0		mg/L	1	09/08/2021 1100	09/08/2021 1312	AGC
pH-SW9045D									
pH (pH Units)	8.1			H5	-	1	09/02/2021 1120	09/02/2021 1529	CWB
Temperature (°C)	21			H5	-	1	09/02/2021 1120	09/02/2021 1529	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-02

Client Sample ID: CW1-09121
Collection Date/Time: 09/01/2021 0930
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	330		22		mg/L	1	09/13/2021 1025	09/14/2021 1252	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	1000				mg/L	1	09/06/2021 0735	09/07/2021 1245	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	8.4				mg/L	10	09/07/2021 1600	09/09/2021 0051	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	1.6		0.10		mg/L	1	09/01/2021 1614	09/09/2021 0051	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.035	0.0032	0.10	E4	mg/L	1	09/13/2021 1025	09/14/2021 1252	MH
Calcium	100		4.0		mg/L	1	09/13/2021 1025	09/14/2021 1252	MH
Iron	ND		0.30		mg/L	1	09/13/2021 1025	09/14/2021 1252	MH
Magnesium	18		3.0		mg/L	1	09/13/2021 1025	09/14/2021 1252	MH
Potassium	5.2		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1252	MH
Silica	21		0.20		mg/L	1	09/13/2021 1025	09/14/2021 1252	MH
Sodium	6.7		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1252	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	ND		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1303	CR
Antimony	0.0014		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1303	CR
Arsenic	0.0025		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1303	CR
Barium	0.028		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1303	CR
Beryllium	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1303	CR
Cadmium	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1303	CR
Chromium	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1303	CR
Cobalt	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1303	CR
Copper	0.032		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1303	CR
Lead	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1303	CR
Manganese	0.011		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1303	CR
Molybdenum	0.15		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1303	CR
Nickel	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1303	CR
Selenium	0.0015	0.00025	0.0025	E4	mg/L	1	09/13/2021 1025	09/15/2021 1303	CR
Silver	0.0000360	0.000021	0.00050	E4	mg/L	1	09/13/2021 1025	09/15/2021 1303	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110062
Lab Sample ID: 2110062-02

Client Sample ID: CW1-09121
Collection Date/Time: 09/01/2021 0930
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	0.0000240.000023		0.00050	E4	mg/L	1	09/13/2021 1025	09/15/2021 1303	CR
Zinc	ND		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1303	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	ND	0.000041	0.0010	E8	mg/L	1	09/14/2021 0915	09/14/2021 1308	MH
Turbidity-E180.1									
Turbidity	3700		10		NTU	100	09/02/2021 1620	09/02/2021 1711	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.10		0.10		mg/L	1	09/06/2021 0735	09/07/2021 1245	MH
Calcium	290		4.0		mg/L	1	09/06/2021 0735	09/07/2021 1245	MH
Iron	65		0.30		mg/L	1	09/06/2021 0735	09/07/2021 1245	MH
Magnesium	76		3.0		mg/L	1	09/06/2021 0735	09/07/2021 1245	MH
Potassium	13		5.0		mg/L	1	09/06/2021 0735	09/07/2021 1245	MH
Silica	190		2.0		mg/L	10	09/06/2021 0735	09/07/2021 1344	MH
Sodium	5.0		5.0		mg/L	1	09/06/2021 0735	09/07/2021 1245	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	51		4.0		mg/L	100	09/03/2021 1200	09/08/2021 1214	CR
Antimony	0.00083		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1225	CR
Arsenic	0.034		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1225	CR
Barium	0.31		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1225	CR
Beryllium	0.0058		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1225	CR
Cadmium	0.0048		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1225	CR
Chromium	0.061		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1225	CR
Cobalt	0.0237		0.000250		mg/L	1	09/03/2021 1200	09/07/2021 1225	CR
Copper	14		0.050		mg/L	100	09/03/2021 1200	09/08/2021 1214	CR
Lead	0.14		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1225	CR
Manganese	4.9		0.025		mg/L	100	09/03/2021 1200	09/08/2021 1214	CR
Molybdenum	0.19		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1225	CR
Nickel	0.035		0.00050	B7	mg/L	1	09/03/2021 1200	09/07/2021 1225	CR
Selenium	0.032		0.0025		mg/L	1	09/03/2021 1200	09/07/2021 1225	CR
Silver	0.0097		0.0025		mg/L	5	09/03/2021 1200	09/08/2021 1256	CR
Thallium	0.00081		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1225	CR
Uranium	0.0096		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1225	CR
Zinc	1.1		0.20		mg/L	5	09/03/2021 1200	09/08/2021 1256	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-02

Client Sample ID: CW1-09121
Collection Date/Time: 09/01/2021 0930
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
CVAA Total Mercury-E245.1									
Mercury	ND	0.00071	0.0020	E8	mg/L	1	09/07/2021 0830	09/07/2021 1310	MH
Anions by Ion Chromatography-E300.0 (2.1)									
Chloride	2.1		1.0		mg/L	1	09/01/2021 1614	09/09/2021 0051	JG
Fluoride	1.1		0.50		mg/L	1	09/01/2021 1614	09/03/2021 0743	JG
Nitrogen, Nitrate (As N)	1.6		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0051	JG
Nitrogen, Nitrite (As N)	ND		0.10	C4	mg/L	1	09/01/2021 1614	09/09/2021 0051	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0051	JG
Sulfate	210		50		mg/L	10	09/01/2021 1614	09/09/2021 0110	JG
Calculation-Ion Balance									
Anion	385				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation	6.90				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation/Anion, % Difference	96.5				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	6.8		5.0		mg/L	10	09/07/2021 1600	09/08/2021 1242	JG
Alkalinity-SM2320B									
Alkalinity, Bicarbonate (As CaCO3)	19000		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Total (As CaCO3)	19000		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Specific Conductance-SM2510 B									
Conductivity	660		0.10		µmhos/cm	1	09/10/2021 1145	09/10/2021 1220	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	520		20		mg/L	1	09/07/2021 0830	09/13/2021 1640	AGC

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-02

Client Sample ID: CW1-09121
Collection Date/Time: 09/01/2021 0930
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	6200		10		mg/L	1	09/07/2021 0828	09/13/2021 1618	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	09/07/2021 1100	09/07/2021 1623	JG
Silica-SM4500-SiO2 C									
Silica	19		10		mg/L	5	09/08/2021 1100	09/08/2021 1312	AGC
pH-SW9045D									
pH (pH Units)	7.9			H5	-	1	09/02/2021 1120	09/02/2021 1532	CWB
Temperature (°C)	21			H5	-	1	09/02/2021 1120	09/02/2021 1532	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-03

Client Sample ID: D1-19-09121
Collection Date/Time: 09/01/2021 1120
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	31		22		mg/L	1	09/13/2021 1025	09/14/2021 1255	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	41				mg/L	1	09/06/2021 0735	09/07/2021 1249	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	7.2				mg/L	10	09/07/2021 1600	09/09/2021 0130	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	0.67		0.10		mg/L	1	09/01/2021 1614	09/09/2021 0130	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.020	0.0032	0.10	E4	mg/L	1	09/13/2021 1025	09/14/2021 1255	MH
Calcium	12		4.0		mg/L	1	09/13/2021 1025	09/14/2021 1255	MH
Iron	ND		0.30		mg/L	1	09/13/2021 1025	09/14/2021 1255	MH
Magnesium	ND		3.0		mg/L	1	09/13/2021 1025	09/14/2021 1255	MH
Potassium	8.3		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1255	MH
Silica	4.4		0.20		mg/L	1	09/13/2021 1025	09/14/2021 1255	MH
Sodium	ND		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1255	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	0.077		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1320	CR
Antimony	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1320	CR
Arsenic	0.0011		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1320	CR
Barium	0.016		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1320	CR
Beryllium	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1320	CR
Cadmium	0.00027		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1320	CR
Chromium	0.00099		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1320	CR
Cobalt	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1320	CR
Copper	0.015		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1320	CR
Lead	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1320	CR
Manganese	0.063		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1320	CR
Molybdenum	0.0036		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1320	CR
Nickel	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1320	CR
Selenium	ND	0.00025	0.0025	E8	mg/L	1	09/13/2021 1025	09/15/2021 1320	CR
Silver	0.00039	0.000021	0.00050	E4	mg/L	1	09/13/2021 1025	09/15/2021 1320	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110062
Lab Sample ID: 2110062-03

Client Sample ID: D1-19-09121
Collection Date/Time: 09/01/2021 1120
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	09/13/2021 1025	09/15/2021 1320	CR
Zinc	ND		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1320	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	ND	0.000041	0.0010	E8	mg/L	1	09/14/2021 0915	09/14/2021 1310	MH
Turbidity-E180.1									
Turbidity	100		1.0		NTU	10	09/02/2021 1620	09/02/2021 1711	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.035	0.0032	0.10	E4	mg/L	1	09/06/2021 0735	09/07/2021 1249	MH
Calcium	16		4.0		mg/L	1	09/06/2021 0735	09/07/2021 1249	MH
Iron	2.0		0.30		mg/L	1	09/06/2021 0735	09/07/2021 1249	MH
Magnesium	ND		3.0		mg/L	1	09/06/2021 0735	09/07/2021 1249	MH
Potassium	9.4		5.0		mg/L	1	09/06/2021 0735	09/07/2021 1249	MH
Silica	16		0.20		mg/L	1	09/06/2021 0735	09/07/2021 1249	MH
Sodium	ND		5.0		mg/L	1	09/06/2021 0735	09/07/2021 1249	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	1.5		0.40		mg/L	10	09/03/2021 1200	09/08/2021 1218	CR
Antimony	ND		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1229	CR
Arsenic	0.0015		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1229	CR
Barium	0.052		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1229	CR
Beryllium	ND		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1229	CR
Cadmium	ND		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1229	CR
Chromium	0.0026		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1229	CR
Cobalt	0.00102		0.000250		mg/L	1	09/03/2021 1200	09/07/2021 1229	CR
Copper	0.040		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1229	CR
Lead	0.0034		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1229	CR
Manganese	0.14		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1229	CR
Molybdenum	0.0035		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1229	CR
Nickel	0.0019		0.00050	B5	mg/L	1	09/03/2021 1200	09/07/2021 1229	CR
Selenium	0.0019	0.00025	0.0025	E4	mg/L	1	09/03/2021 1200	09/07/2021 1229	CR
Silver	ND	0.00021	0.0050	E8	mg/L	10	09/03/2021 1200	09/08/2021 1218	CR
Thallium	0.000042	0.000023	0.00050	E4	mg/L	1	09/03/2021 1200	09/07/2021 1229	CR
Uranium	0.00015	0.000015	0.00050	E4	mg/L	1	09/03/2021 1200	09/07/2021 1229	CR
Zinc	ND		0.040		mg/L	1	09/03/2021 1200	09/07/2021 1229	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-03

Client Sample ID: D1-19-09121
Collection Date/Time: 09/01/2021 1120
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
CVAA Total Mercury-E245.1									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/07/2021 0830	09/07/2021 1313	MH
Anions by Ion Chromatography-E300.0 (2.1)									
Chloride	1.2		1.0	C4	mg/L	1	09/01/2021 1614	09/09/2021 0130	JG
Fluoride	ND		0.50		mg/L	1	09/01/2021 1614	09/03/2021 0802	JG
Nitrogen, Nitrate (As N)	0.50		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0130	JG
Nitrogen, Nitrite (As N)	0.17		0.10	C4	mg/L	1	09/01/2021 1614	09/09/2021 0130	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0130	JG
Sulfate	5.4		5.0		mg/L	1	09/01/2021 1614	09/09/2021 0130	JG
Calculation-Ion Balance									
Anion	2.71				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation	0.822				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation/Anion, % Difference	53.4				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	6.5		5.0		mg/L	10	09/07/2021 1600	09/08/2021 1242	JG
Alkalinity-SM2320B									
Alkalinity, Bicarbonate (As CaCO3)	120		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Total (As CaCO3)	120		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Specific Conductance-SM2510 B									
Conductivity	110		0.10		µmhos/cm	1	09/10/2021 1145	09/10/2021 1220	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	100		20		mg/L	1	09/07/2021 0830	09/13/2021 1640	AGC

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-03

Client Sample ID: D1-19-09121
Collection Date/Time: 09/01/2021 1120
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	88		10		mg/L	1	09/07/2021 0828	09/13/2021 1618	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	09/07/2021 1100	09/07/2021 1623	JG
Silica-SM4500-SiO2 C									
Silica	4.8		2.0		mg/L	1	09/08/2021 1100	09/08/2021 1312	AGC
pH-SW9045D									
pH (pH Units)	7.3			H5	-	1	09/02/2021 1120	09/02/2021 1534	CWB
Temperature (°C)	21			H5	-	1	09/02/2021 1120	09/02/2021 1534	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-04

Client Sample ID: D1-19Barrel-09121
Collection Date/Time: 09/01/2021 1130
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	87		22		mg/L	1	09/13/2021 1025	09/14/2021 1258	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	100				mg/L	1	09/06/2021 0735	09/07/2021 1253	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	8.6				mg/L	10	09/07/2021 1600	09/09/2021 0149	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	1.8		0.10		mg/L	1	09/01/2021 1614	09/09/2021 0149	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.078	0.0032	0.10	E4	mg/L	1	09/13/2021 1025	09/14/2021 1258	MH
Calcium	30		4.0		mg/L	1	09/13/2021 1025	09/14/2021 1258	MH
Iron	ND		0.30		mg/L	1	09/13/2021 1025	09/14/2021 1258	MH
Magnesium	3.1		3.0		mg/L	1	09/13/2021 1025	09/14/2021 1258	MH
Potassium	9.3		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1258	MH
Silica	12		0.20		mg/L	1	09/13/2021 1025	09/14/2021 1258	MH
Sodium	5.9		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1258	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	ND		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1324	CR
Antimony	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1324	CR
Arsenic	0.0030		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1324	CR
Barium	0.044		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1324	CR
Beryllium	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1324	CR
Cadmium	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1324	CR
Chromium	0.0021		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1324	CR
Cobalt	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1324	CR
Copper	0.014		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1324	CR
Lead	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1324	CR
Manganese	0.029		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1324	CR
Molybdenum	0.0078		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1324	CR
Nickel	0.00056		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1324	CR
Selenium	ND	0.00025	0.0025	E8	mg/L	1	09/13/2021 1025	09/15/2021 1324	CR
Silver	0.00013	0.000021	0.00050	E4	mg/L	1	09/13/2021 1025	09/15/2021 1324	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110062
Lab Sample ID: 2110062-04

Client Sample ID: D1-19Barrel-09121
Collection Date/Time: 09/01/2021 1130
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	09/13/2021 1025	09/15/2021 1324	CR
Zinc	ND		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1324	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	ND	0.000041	0.0010	E8	mg/L	1	09/14/2021 0915	09/14/2021 1313	MH
Turbidity-E180.1									
Turbidity	600		5.0		NTU	50	09/02/2021 1620	09/02/2021 1711	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.069	0.0032	0.10	E4	mg/L	1	09/06/2021 0735	09/07/2021 1254	MH
Calcium	31		4.0		mg/L	1	09/06/2021 0735	09/07/2021 1253	MH
Iron	5.9		0.30		mg/L	1	09/06/2021 0735	09/07/2021 1253	MH
Magnesium	5.9		3.0		mg/L	1	09/06/2021 0735	09/07/2021 1253	MH
Potassium	11		5.0		mg/L	1	09/06/2021 0735	09/07/2021 1253	MH
Silica	42		0.20		mg/L	1	09/06/2021 0735	09/07/2021 1254	MH
Sodium	5.7		5.0		mg/L	1	09/06/2021 0735	09/07/2021 1253	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	5.3		0.80		mg/L	20	09/03/2021 1200	09/08/2021 1221	CR
Antimony	0.00050		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1232	CR
Arsenic	0.0047		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1232	CR
Barium	0.14		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1232	CR
Beryllium	0.00055		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1232	CR
Cadmium	0.00029		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1232	CR
Chromium	0.0073		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1232	CR
Cobalt	0.00391		0.000250		mg/L	1	09/03/2021 1200	09/07/2021 1232	CR
Copper	0.14		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1232	CR
Lead	0.012		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1232	CR
Manganese	0.41		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1232	CR
Molybdenum	0.0058		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1232	CR
Nickel	0.0057		0.00050	B5	mg/L	1	09/03/2021 1200	09/07/2021 1232	CR
Selenium	0.0067		0.0025		mg/L	1	09/03/2021 1200	09/07/2021 1232	CR
Silver	ND	0.00042	0.010	E8	mg/L	20	09/03/2021 1200	09/08/2021 1221	CR
Thallium	0.00013	0.000023	0.00050	E4	mg/L	1	09/03/2021 1200	09/07/2021 1232	CR
Uranium	0.00064		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1232	CR
Zinc	0.11		0.040		mg/L	1	09/03/2021 1200	09/07/2021 1232	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-04

Client Sample ID: D1-19Barrel-09121
Collection Date/Time: 09/01/2021 1130
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
CVAA Total Mercury-E245.1									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/07/2021 0830	09/07/2021 1315	MH
Anions by Ion Chromatography-E300.0 (2.1)									
Chloride	1.1		1.0		mg/L	1	09/01/2021 1614	09/09/2021 0149	JG
Fluoride	ND		0.50		mg/L	1	09/01/2021 1614	09/03/2021 0821	JG
Nitrogen, Nitrate (As N)	1.3		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0149	JG
Nitrogen, Nitrite (As N)	0.48		0.10	C4	mg/L	1	09/01/2021 1614	09/09/2021 0149	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0149	JG
Sulfate	12		5.0	M2	mg/L	1	09/01/2021 1614	09/09/2021 0149	JG
Calculation-Ion Balance									
Anion	3.89				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation	2.25				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation/Anion, % Difference	26.7				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	6.8		5.0		mg/L	10	09/07/2021 1600	09/08/2021 1242	JG
Alkalinity-SM2320B									
Alkalinity, Bicarbonate (As CaCO3)	160		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Total (As CaCO3)	160		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Specific Conductance-SM2510 B									
Conductivity	220		0.10		µmhos/cm	1	09/10/2021 1145	09/10/2021 1220	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	90		20		mg/L	1	09/07/2021 0830	09/13/2021 1640	AGC

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-04

Client Sample ID: D1-19Barrel-09121
Collection Date/Time: 09/01/2021 1130
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	2300		10		mg/L	1	09/07/2021 0828	09/13/2021 1618	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	09/07/2021 1100	09/07/2021 1623	JG
Silica-SM4500-SiO2 C									
Silica	12		2.0		mg/L	1	09/08/2021 1100	09/08/2021 1312	AGC
pH-SW9045D									
pH (pH Units)	7.7			H5	-	1	09/02/2021 1120	09/02/2021 1544	CWB
Temperature (°C)	22			H5	-	1	09/02/2021 1120	09/02/2021 1544	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-05

Client Sample ID: WGHS-UP-09121
Collection Date/Time: 09/01/2021 1210
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	36		22		mg/L	1	09/13/2021 1025	09/14/2021 1301	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	67				mg/L	1	09/06/2021 0735	09/07/2021 1257	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	0.0				mg/L	10	09/07/2021 1600	09/09/2021 0208	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	ND		0.10		mg/L	1	09/01/2021 1614	09/09/2021 0208	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.023	0.0032	0.10	E4	mg/L	1	09/13/2021 1025	09/14/2021 1301	MH
Calcium	14		4.0		mg/L	1	09/13/2021 1025	09/14/2021 1301	MH
Iron	ND		0.30		mg/L	1	09/13/2021 1025	09/14/2021 1301	MH
Magnesium	ND		3.0		mg/L	1	09/13/2021 1025	09/14/2021 1301	MH
Potassium	8.4		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1301	MH
Silica	4.4		0.20		mg/L	1	09/13/2021 1025	09/14/2021 1301	MH
Sodium	ND		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1301	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	0.042		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1334	CR
Antimony	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1334	CR
Arsenic	0.0012		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1334	CR
Barium	0.024		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1334	CR
Beryllium	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1334	CR
Cadmium	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1334	CR
Chromium	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1334	CR
Cobalt	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1334	CR
Copper	0.018		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1334	CR
Lead	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1334	CR
Manganese	0.015		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1334	CR
Molybdenum	0.0028		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1334	CR
Nickel	0.00083		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1334	CR
Selenium	ND	0.00025	0.0025	E8	mg/L	1	09/13/2021 1025	09/15/2021 1334	CR
Silver	0.000085	0.000021	0.00050	E4	mg/L	1	09/13/2021 1025	09/15/2021 1334	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110062
Lab Sample ID: 2110062-05

Client Sample ID: WGHS-UP-09121
Collection Date/Time: 09/01/2021 1210
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	09/13/2021 1025	09/15/2021 1334	CR
Zinc	ND		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1334	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	ND	0.000041	0.0010	E8	mg/L	1	09/14/2021 0915	09/14/2021 1315	MH
Turbidity-E180.1									
Turbidity	220		5.0		NTU	50	09/02/2021 1620	09/02/2021 1711	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.039	0.0032	0.10	E4	mg/L	1	09/06/2021 0735	09/07/2021 1258	MH
Calcium	19		4.0		mg/L	1	09/06/2021 0735	09/07/2021 1257	MH
Iron	6.0		0.30		mg/L	1	09/06/2021 0735	09/07/2021 1257	MH
Magnesium	4.6		3.0		mg/L	1	09/06/2021 0735	09/07/2021 1257	MH
Potassium	11		5.0		mg/L	1	09/06/2021 0735	09/07/2021 1257	MH
Silica	43		0.20		mg/L	1	09/06/2021 0735	09/07/2021 1258	MH
Sodium	ND		5.0		mg/L	1	09/06/2021 0735	09/07/2021 1257	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	6.1		0.80		mg/L	20	09/03/2021 1200	09/08/2021 1225	CR
Antimony	ND		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1236	CR
Arsenic	0.0027		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1236	CR
Barium	0.086		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1236	CR
Beryllium	0.00048		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1236	CR
Cadmium	ND		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1236	CR
Chromium	0.0050		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1236	CR
Cobalt	0.00275		0.000250		mg/L	1	09/03/2021 1200	09/07/2021 1236	CR
Copper	0.12		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1236	CR
Lead	0.0066		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1236	CR
Manganese	0.28		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1236	CR
Molybdenum	0.0022		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1236	CR
Nickel	0.0059		0.00050	B5	mg/L	1	09/03/2021 1200	09/07/2021 1236	CR
Selenium	0.0040		0.0025		mg/L	1	09/03/2021 1200	09/07/2021 1236	CR
Silver	ND	0.00042	0.010	E8	mg/L	20	09/03/2021 1200	09/08/2021 1225	CR
Thallium	0.0000920	0.000023	0.00050	E4	mg/L	1	09/03/2021 1200	09/07/2021 1236	CR
Uranium	0.00020	0.000015	0.00050	E4	mg/L	1	09/03/2021 1200	09/07/2021 1236	CR
Zinc	0.056		0.040		mg/L	1	09/03/2021 1200	09/07/2021 1236	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110062
Lab Sample ID: 2110062-05

Client Sample ID: WGHS-UP-09121
Collection Date/Time: 09/01/2021 1210
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
CVAA Total Mercury-E245.1									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/07/2021 0830	09/07/2021 1318	MH
Anions by Ion Chromatography-E300.0 (2.1)									
Chloride	1.1		1.0		mg/L	1	09/01/2021 1614	09/09/2021 0208	JG
Fluoride	ND		0.50		mg/L	1	09/01/2021 1614	09/03/2021 0840	JG
Nitrogen, Nitrate (As N)	ND		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0208	JG
Nitrogen, Nitrite (As N)	ND		0.10	C4	mg/L	1	09/01/2021 1614	09/09/2021 0208	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0208	JG
Sulfate	ND		5.0	M2	mg/L	1	09/01/2021 1614	09/09/2021 0208	JG
Calculation-Ion Balance									
Anion	2.37				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation	0.919				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation/Anion, % Difference	44.1				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	ND		5.0	D1	mg/L	10	09/07/2021 1600	09/08/2021 1242	JG
Alkalinity-SM2320B									
Alkalinity, Bicarbonate (As CaCO3)	110		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Total (As CaCO3)	110		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Specific Conductance-SM2510 B									
Conductivity	130		0.10		µmhos/cm	1	09/10/2021 1145	09/10/2021 1220	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	1700		20		mg/L	1	09/07/2021 0830	09/13/2021 1640	AGC

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-05

Client Sample ID: WGHS-UP-09121
Collection Date/Time: 09/01/2021 1210
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	110		10		mg/L	1	09/07/2021 0828	09/13/2021 1618	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	09/07/2021 1100	09/07/2021 1623	JG
Silica-SM4500-SiO2 C									
Silica	5.2		2.0		mg/L	1	09/08/2021 1100	09/08/2021 1312	AGC
pH-SW9045D									
pH (pH Units)	7.7			H5	-	1	09/02/2021 1120	09/02/2021 1546	CWB
Temperature (°C)	21			H5	-	1	09/02/2021 1120	09/02/2021 1546	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-06

Client Sample ID: WGHS-D-09121
Collection Date/Time: 09/01/2021 1215
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	55		22		mg/L	1	09/13/2021 1025	09/14/2021 1320	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	76				mg/L	1	09/06/2021 0735	09/07/2021 1301	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	0.11				mg/L	10	09/07/2021 1600	09/09/2021 0345	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	0.11		0.10		mg/L	1	09/01/2021 1614	09/09/2021 0345	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.028	0.0032	0.10	E4	mg/L	1	09/13/2021 1025	09/14/2021 1320	MH
Calcium	22		4.0		mg/L	1	09/13/2021 1025	09/14/2021 1320	MH
Iron	ND		0.30		mg/L	1	09/13/2021 1025	09/14/2021 1320	MH
Magnesium	ND		3.0		mg/L	1	09/13/2021 1025	09/14/2021 1320	MH
Potassium	9.1		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1320	MH
Silica	5.7		0.20		mg/L	1	09/13/2021 1025	09/14/2021 1320	MH
Sodium	ND		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1320	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	0.049		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1338	CR
Antimony	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1338	CR
Arsenic	0.0019		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1338	CR
Barium	0.035		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1338	CR
Beryllium	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1338	CR
Cadmium	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1338	CR
Chromium	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1338	CR
Cobalt	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1338	CR
Copper	0.015		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1338	CR
Lead	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1338	CR
Manganese	0.015		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1338	CR
Molybdenum	0.013		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1338	CR
Nickel	0.00070		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1338	CR
Selenium	ND	0.00025	0.0025	E8	mg/L	1	09/13/2021 1025	09/15/2021 1338	CR
Silver	0.000047	0.000021	0.00050	E4	mg/L	1	09/13/2021 1025	09/15/2021 1338	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110062
Lab Sample ID: 2110062-06

Client Sample ID: WGHS-D-09121
Collection Date/Time: 09/01/2021 1215
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	09/13/2021 1025	09/15/2021 1338	CR
Zinc	ND		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1338	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	ND	0.000041	0.0010	E8	mg/L	1	09/14/2021 0915	09/14/2021 1318	MH
Turbidity-E180.1									
Turbidity	150		1.0		NTU	10	09/02/2021 1620	09/02/2021 1711	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.047	0.0032	0.10	E4	mg/L	1	09/06/2021 0735	09/07/2021 1302	MH
Calcium	23		4.0		mg/L	1	09/06/2021 0735	09/07/2021 1301	MH
Iron	4.1		0.30		mg/L	1	09/06/2021 0735	09/07/2021 1301	MH
Magnesium	4.1		3.0		mg/L	1	09/06/2021 0735	09/07/2021 1301	MH
Potassium	11		5.0		mg/L	1	09/06/2021 0735	09/07/2021 1301	MH
Silica	24		0.20		mg/L	1	09/06/2021 0735	09/07/2021 1302	MH
Sodium	ND		5.0		mg/L	1	09/06/2021 0735	09/07/2021 1301	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	3.5		0.40		mg/L	10	09/03/2021 1200	09/08/2021 1228	CR
Antimony	ND		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1239	CR
Arsenic	0.0026		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1239	CR
Barium	0.084		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1239	CR
Beryllium	0.00030		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1239	CR
Cadmium	ND		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1239	CR
Chromium	0.0034		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1239	CR
Cobalt	0.00219		0.000250		mg/L	1	09/03/2021 1200	09/07/2021 1239	CR
Copper	0.10		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1239	CR
Lead	0.0050		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1239	CR
Manganese	0.31		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1239	CR
Molybdenum	0.011		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1239	CR
Nickel	0.0041		0.00050	B5	mg/L	1	09/03/2021 1200	09/07/2021 1239	CR
Selenium	0.0035		0.0025		mg/L	1	09/03/2021 1200	09/07/2021 1239	CR
Silver	ND	0.00021	0.0050	E8	mg/L	10	09/03/2021 1200	09/08/2021 1228	CR
Thallium	0.000065	0.000023	0.00050	E4	mg/L	1	09/03/2021 1200	09/07/2021 1239	CR
Uranium	0.00039	0.000015	0.00050	E4	mg/L	1	09/03/2021 1200	09/07/2021 1239	CR
Zinc	ND		0.040		mg/L	1	09/03/2021 1200	09/07/2021 1239	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110062
Lab Sample ID: 2110062-06

Client Sample ID: WGHS-D-09121
Collection Date/Time: 09/01/2021 1215
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
CVAA Total Mercury-E245.1									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/08/2021 0810	09/08/2021 1345	CR
Anions by Ion Chromatography-E300.0 (2.1)									
Chloride	1.3		1.0		mg/L	1	09/01/2021 1614	09/09/2021 0345	JG
Fluoride	ND		0.50		mg/L	1	09/01/2021 1614	09/03/2021 0858	JG
Nitrogen, Nitrate (As N)	ND		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0345	JG
Nitrogen, Nitrite (As N)	0.11		0.10	C4	mg/L	1	09/01/2021 1614	09/09/2021 0345	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0345	JG
Sulfate	5.7		5.0	M2	mg/L	1	09/01/2021 1614	09/09/2021 0345	JG
Calculation-Ion Balance									
Anion	2.52				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation	1.34				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation/Anion, % Difference	30.7				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	ND		5.0	D1	mg/L	10	09/07/2021 1600	09/08/2021 1242	JG
Alkalinity-SM2320B									
Alkalinity, Bicarbonate (As CaCO3)	110		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Total (As CaCO3)	110		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Specific Conductance-SM2510 B									
Conductivity	160		0.10		µmhos/cm	1	09/10/2021 1145	09/10/2021 1220	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	130		20		mg/L	1	09/07/2021 0830	09/13/2021 1640	AGC

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110062
Lab Sample ID: 2110062-06

Client Sample ID: WGHS-D-09121
Collection Date/Time: 09/01/2021 1215
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	140		10		mg/L	1	09/07/2021 0828	09/13/2021 1618	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	09/07/2021 1100	09/07/2021 1623	JG
Silica-SM4500-SiO2 C									
Silica	6.3		2.0		mg/L	1	09/08/2021 1100	09/08/2021 1312	AGC
pH-SW9045D									
pH (pH Units)	7.5			H5	-	1	09/02/2021 1120	09/02/2021 1551	CWB
Temperature (°C)	21			H5	-	1	09/02/2021 1120	09/02/2021 1551	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-07

Client Sample ID: WGHS-W-09121
Collection Date/Time: 09/01/2021 1230
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	61		22		mg/L	1	09/13/2021 1025	09/14/2021 1323	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	110				mg/L	1	09/06/2021 0735	09/07/2021 1331	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	11				mg/L	10	09/07/2021 1600	09/09/2021 0404	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	ND		0.10		mg/L	1	09/01/2021 1614	09/09/2021 0404	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.023	0.0032	0.10	E4	mg/L	1	09/13/2021 1025	09/14/2021 1323	MH
Calcium	25		4.0		mg/L	1	09/13/2021 1025	09/14/2021 1323	MH
Iron	ND		0.30		mg/L	1	09/13/2021 1025	09/14/2021 1323	MH
Magnesium	ND		3.0		mg/L	1	09/13/2021 1025	09/14/2021 1323	MH
Potassium	5.9		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1323	MH
Silica	5.5		0.20		mg/L	1	09/13/2021 1025	09/14/2021 1323	MH
Sodium	ND		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1323	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	ND		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1341	CR
Antimony	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1341	CR
Arsenic	0.0017		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1341	CR
Barium	0.042		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1341	CR
Beryllium	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1341	CR
Cadmium	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1341	CR
Chromium	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1341	CR
Cobalt	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1341	CR
Copper	0.014		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1341	CR
Lead	0.0017		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1341	CR
Manganese	0.018		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1341	CR
Molybdenum	0.0061		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1341	CR
Nickel	0.0029		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1341	CR
Selenium	ND	0.00025	0.0025	E8	mg/L	1	09/13/2021 1025	09/15/2021 1341	CR
Silver	0.000044	0.000021	0.00050	E4	mg/L	1	09/13/2021 1025	09/15/2021 1341	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110062
Lab Sample ID: 2110062-07

Client Sample ID: WGHS-W-09121
Collection Date/Time: 09/01/2021 1230
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	0.000039	0.000023	0.00050	E4	mg/L	1	09/13/2021 1025	09/15/2021 1341	CR
Zinc	0.057		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1341	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	ND	0.000041	0.0010	E8	mg/L	1	09/14/2021 0915	09/14/2021 1325	MH
Turbidity-E180.1									
Turbidity	740		2.0		NTU	20	09/02/2021 1620	09/02/2021 1711	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.055	0.0032	0.10	E4	mg/L	1	09/06/2021 0735	09/07/2021 1331	MH
Calcium	33		4.0		mg/L	1	09/06/2021 0735	09/07/2021 1331	MH
Iron	16		0.30		mg/L	1	09/06/2021 0735	09/07/2021 1331	MH
Magnesium	7.7		3.0		mg/L	1	09/06/2021 0735	09/07/2021 1331	MH
Potassium	11		5.0		mg/L	1	09/06/2021 0735	09/07/2021 1331	MH
Silica	81		0.20		mg/L	1	09/06/2021 0735	09/07/2021 1331	MH
Sodium	ND		5.0		mg/L	1	09/06/2021 0735	09/07/2021 1331	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	14		2.0		mg/L	50	09/03/2021 1200	09/08/2021 1231	CR
Antimony	ND		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1243	CR
Arsenic	0.0046		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1243	CR
Barium	0.18		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1243	CR
Beryllium	0.0013		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1243	CR
Cadmium	0.00031		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1243	CR
Chromium	0.0095		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1243	CR
Cobalt	0.00699		0.000250		mg/L	1	09/03/2021 1200	09/07/2021 1243	CR
Copper	0.15		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1243	CR
Lead	0.020		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1243	CR
Manganese	0.69		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1243	CR
Molybdenum	0.0034		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1243	CR
Nickel	0.0091		0.00050	B7	mg/L	1	09/03/2021 1200	09/07/2021 1243	CR
Selenium	0.015		0.0025		mg/L	1	09/03/2021 1200	09/07/2021 1243	CR
Silver	ND	0.0011	0.025	E8	mg/L	50	09/03/2021 1200	09/08/2021 1231	CR
Thallium	0.00023	0.000023	0.00050	E4	mg/L	1	09/03/2021 1200	09/07/2021 1243	CR
Uranium	0.00092		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1243	CR
Zinc	0.076		0.040		mg/L	1	09/03/2021 1200	09/07/2021 1243	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110062
Lab Sample ID: 2110062-07

Client Sample ID: WGHS-W-09121
Collection Date/Time: 09/01/2021 1230
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
CVAA Total Mercury-E245.1									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/08/2021 0810	09/08/2021 1348	CR
Anions by Ion Chromatography-E300.0 (2.1)									
Chloride	1.3		1.0		mg/L	1	09/01/2021 1614	09/09/2021 0404	JG
Fluoride	ND		0.50		mg/L	1	09/01/2021 1614	09/03/2021 0917	JG
Nitrogen, Nitrate (As N)	ND		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0404	JG
Nitrogen, Nitrite (As N)	ND		0.10	C4	mg/L	1	09/01/2021 1614	09/09/2021 0404	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0404	JG
Sulfate	ND		5.0		mg/L	1	09/01/2021 1614	09/09/2021 0404	JG
Calculation-Ion Balance									
Anion	2.97				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation	1.40				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation/Anion, % Difference	35.8				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	11		5.0		mg/L	10	09/07/2021 1600	09/08/2021 1242	JG
Alkalinity-SM2320B									
Alkalinity, Bicarbonate (As CaCO3)	140		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Total (As CaCO3)	140		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Specific Conductance-SM2510 B									
Conductivity	160		0.10		µmhos/cm	1	09/10/2021 1145	09/10/2021 1220	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	370		20		mg/L	1	09/07/2021 0830	09/13/2021 1640	AGC

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110062
Lab Sample ID: 2110062-07

Client Sample ID: WGHS-W-09121
Collection Date/Time: 09/01/2021 1230
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	270		10		mg/L	1	09/07/2021 0828	09/13/2021 1618	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	09/07/2021 1100	09/07/2021 1623	JG
Silica-SM4500-SiO2 C									
Silica	4.9		2.0		mg/L	1	09/08/2021 1100	09/08/2021 1312	AGC
pH-SW9045D									
pH (pH Units)	8.2			H5	-	1	09/02/2021 1120	09/02/2021 1554	CWB
Temperature (°C)	21			H5	-	1	09/02/2021 1120	09/02/2021 1554	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-08

Client Sample ID: NH-09121
Collection Date/Time: 09/01/2021 1310
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	74		22		mg/L	1	09/13/2021 1025	09/14/2021 1326	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	370				mg/L	1	09/06/2021 0735	09/07/2021 1335	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	0.0				mg/L	10	09/07/2021 1600	09/09/2021 0424	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	ND		0.10		mg/L	1	09/01/2021 1614	09/09/2021 0424	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.025	0.0032	0.10	E4	mg/L	1	09/13/2021 1025	09/14/2021 1326	MH
Calcium	29		4.0		mg/L	1	09/13/2021 1025	09/14/2021 1326	MH
Iron	ND		0.30		mg/L	1	09/13/2021 1025	09/14/2021 1326	MH
Magnesium	ND		3.0		mg/L	1	09/13/2021 1025	09/14/2021 1326	MH
Potassium	6.0		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1326	MH
Silica	8.8		0.20		mg/L	1	09/13/2021 1025	09/14/2021 1326	MH
Sodium	ND		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1326	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	ND		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1345	CR
Antimony	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1345	CR
Arsenic	0.0037		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1345	CR
Barium	0.058		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1345	CR
Beryllium	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1345	CR
Cadmium	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1345	CR
Chromium	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1345	CR
Cobalt	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1345	CR
Copper	0.0039		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1345	CR
Lead	0.00064		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1345	CR
Manganese	0.020		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1345	CR
Molybdenum	0.0020		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1345	CR
Nickel	0.0015		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1345	CR
Selenium	ND	0.00025	0.0025	E8	mg/L	1	09/13/2021 1025	09/15/2021 1345	CR
Silver	0.000025	0.000021	0.00050	E4	mg/L	1	09/13/2021 1025	09/15/2021 1345	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110062
Lab Sample ID: 2110062-08

Client Sample ID: NH-09121
Collection Date/Time: 09/01/2021 1310
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	09/13/2021 1025	09/15/2021 1345	CR
Zinc	ND		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1345	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	0.000042	0.000041	0.0010	E4	mg/L	1	09/14/2021 0915	09/14/2021 1328	MH
Turbidity-E180.1									
Turbidity	2800		10		NTU	100	09/02/2021 1620	09/02/2021 1711	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.11		0.10		mg/L	1	09/06/2021 0735	09/07/2021 1335	MH
Calcium	96		4.0		mg/L	1	09/06/2021 0735	09/07/2021 1335	MH
Iron	67		0.30		mg/L	1	09/06/2021 0735	09/07/2021 1335	MH
Magnesium	32		3.0		mg/L	1	09/06/2021 0735	09/07/2021 1335	MH
Potassium	28		5.0		mg/L	1	09/06/2021 0735	09/07/2021 1335	MH
Silica	220		2.0		mg/L	10	09/06/2021 0735	09/07/2021 1408	MH
Sodium	ND		5.0		mg/L	1	09/06/2021 0735	09/07/2021 1335	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	69		4.0		mg/L	100	09/03/2021 1200	09/08/2021 1235	CR
Antimony	ND		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1246	CR
Arsenic	0.023		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1246	CR
Barium	0.86		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1246	CR
Beryllium	0.0046		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1246	CR
Cadmium	0.0015		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1246	CR
Chromium	0.043		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1246	CR
Cobalt	0.0374		0.000250		mg/L	1	09/03/2021 1200	09/07/2021 1246	CR
Copper	0.11		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1246	CR
Lead	0.12		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1246	CR
Manganese	2.9		0.025		mg/L	100	09/03/2021 1200	09/08/2021 1235	CR
Molybdenum	0.00059		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1246	CR
Nickel	0.042		0.00050	B7	mg/L	1	09/03/2021 1200	09/07/2021 1246	CR
Selenium	0.050		0.0025		mg/L	1	09/03/2021 1200	09/07/2021 1246	CR
Silver	0.00067		0.00050		mg/L	1	09/03/2021 1200	09/08/2021 1259	CR
Thallium	0.00093		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1246	CR
Uranium	0.0019		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1246	CR
Zinc	0.26		0.040		mg/L	1	09/03/2021 1200	09/07/2021 1246	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110062
Lab Sample ID: 2110062-08

Client Sample ID: NH-09121
Collection Date/Time: 09/01/2021 1310
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
CVAA Total Mercury-E245.1									
Mercury	ND	0.00071	0.0020	E8	mg/L	1	09/08/2021 0810	09/08/2021 1350	CR
Anions by Ion Chromatography-E300.0 (2.1)									
Chloride	ND		1.0		mg/L	1	09/01/2021 1614	09/09/2021 0424	JG
Fluoride	ND		0.50		mg/L	1	09/01/2021 1614	09/03/2021 0936	JG
Nitrogen, Nitrate (As N)	ND		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0424	JG
Nitrogen, Nitrite (As N)	ND		0.10	C4	mg/L	1	09/01/2021 1614	09/09/2021 0424	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0424	JG
Sulfate	72		5.0		mg/L	1	09/01/2021 1614	09/09/2021 0424	JG
Calculation-Ion Balance									
Anion	4.53				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation	1.60				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation/Anion, % Difference	47.7				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	ND		5.0	D1	mg/L	10	09/07/2021 1600	09/08/2021 1242	JG
Alkalinity-SM2320B									
Alkalinity, Bicarbonate (As CaCO3)	140		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Total (As CaCO3)	140		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Specific Conductance-SM2510 B									
Conductivity	360		0.10		µmhos/cm	1	09/10/2021 1435	09/10/2021 1515	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	340		20		mg/L	1	09/07/2021 0830	09/13/2021 1640	AGC

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-08

Client Sample ID: NH-09121
Collection Date/Time: 09/01/2021 1310
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	3800		10		mg/L	1	09/07/2021 0828	09/13/2021 1618	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	09/07/2021 1100	09/07/2021 1623	JG
Silica-SM4500-SiO2 C									
Silica	8.6		2.0		mg/L	1	09/08/2021 1100	09/08/2021 1312	AGC
pH-SW9045D									
pH (pH Units)	6.8			H5	-	1	09/02/2021 1120	09/02/2021 1559	CWB
Temperature (°C)	22			H5	-	1	09/02/2021 1120	09/02/2021 1559	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-09

Client Sample ID: ONH-09121
Collection Date/Time: 09/01/2021 1340
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	34		22		mg/L	1	09/13/2021 1025	09/14/2021 1329	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	92				mg/L	1	09/06/2021 0735	09/07/2021 1347	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	0.60				mg/L	10	09/07/2021 1600	09/09/2021 0443	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	0.60		0.10		mg/L	1	09/01/2021 1614	09/09/2021 0443	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.022	0.0032	0.10	E4	mg/L	1	09/13/2021 1025	09/14/2021 1329	MH
Calcium	13		4.0		mg/L	1	09/13/2021 1025	09/14/2021 1329	MH
Iron	ND		0.30		mg/L	1	09/13/2021 1025	09/14/2021 1329	MH
Magnesium	ND		3.0		mg/L	1	09/13/2021 1025	09/14/2021 1329	MH
Potassium	6.6		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1329	MH
Silica	4.6		0.20		mg/L	1	09/13/2021 1025	09/14/2021 1329	MH
Sodium	ND		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1329	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	ND		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1348	CR
Antimony	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1348	CR
Arsenic	0.0017		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1348	CR
Barium	0.035		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1348	CR
Beryllium	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1348	CR
Cadmium	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1348	CR
Chromium	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1348	CR
Cobalt	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1348	CR
Copper	0.0070		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1348	CR
Lead	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1348	CR
Manganese	0.016		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1348	CR
Molybdenum	0.0030		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1348	CR
Nickel	0.0011		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1348	CR
Selenium	0.00028	0.00025	0.0025	E4	mg/L	1	09/13/2021 1025	09/15/2021 1348	CR
Silver	0.000028	0.000021	0.00050	E4	mg/L	1	09/13/2021 1025	09/15/2021 1348	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110062
Lab Sample ID: 2110062-09

Client Sample ID: ONH-09121
Collection Date/Time: 09/01/2021 1340
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	09/13/2021 1025	09/15/2021 1348	CR
Zinc	ND		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1348	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	ND	0.000041	0.0010	E8	mg/L	1	09/14/2021 0915	09/14/2021 1330	MH
Turbidity-E180.1									
Turbidity	850		5.0		NTU	50	09/02/2021 1620	09/02/2021 1711	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.054	0.0032	0.10	E4	mg/L	1	09/06/2021 0735	09/07/2021 1348	MH
Calcium	23		4.0		mg/L	1	09/06/2021 0735	09/07/2021 1347	MH
Iron	20		0.30		mg/L	1	09/06/2021 0735	09/07/2021 1347	MH
Magnesium	8.6		3.0		mg/L	1	09/06/2021 0735	09/07/2021 1347	MH
Potassium	12		5.0		mg/L	1	09/06/2021 0735	09/07/2021 1347	MH
Silica	100		2.0		mg/L	10	09/06/2021 0735	09/07/2021 1412	MH
Sodium	ND		5.0		mg/L	1	09/06/2021 0735	09/07/2021 1347	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	16		2.0		mg/L	50	09/03/2021 1200	09/08/2021 1238	CR
Antimony	ND		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1250	CR
Arsenic	0.0068		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1250	CR
Barium	0.21		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1250	CR
Beryllium	0.0016		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1250	CR
Cadmium	0.00035		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1250	CR
Chromium	0.013		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1250	CR
Cobalt	0.0103		0.000250		mg/L	1	09/03/2021 1200	09/07/2021 1250	CR
Copper	0.035		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1250	CR
Lead	0.029		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1250	CR
Manganese	0.78		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1250	CR
Molybdenum	0.0019		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1250	CR
Nickel	0.018		0.00050	B7	mg/L	1	09/03/2021 1200	09/07/2021 1250	CR
Selenium	0.022		0.0025		mg/L	1	09/03/2021 1200	09/07/2021 1250	CR
Silver	ND	0.0011	0.025	E8	mg/L	50	09/03/2021 1200	09/08/2021 1238	CR
Thallium	0.00024	0.000023	0.00050	E4	mg/L	1	09/03/2021 1200	09/07/2021 1250	CR
Uranium	0.00077		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1250	CR
Zinc	0.12		0.040		mg/L	1	09/03/2021 1200	09/07/2021 1250	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-09

Client Sample ID: ONH-09121
Collection Date/Time: 09/01/2021 1340
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
CVAA Total Mercury-E245.1									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/08/2021 0810	09/08/2021 1353	CR
Anions by Ion Chromatography-E300.0 (2.1)									
Chloride	1.8		1.0		mg/L	1	09/01/2021 1614	09/09/2021 0443	JG
Fluoride	ND		0.50		mg/L	1	09/01/2021 1614	09/03/2021 0955	JG
Nitrogen, Nitrate (As N)	0.60		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0443	JG
Nitrogen, Nitrite (As N)	ND		0.10	C4	mg/L	1	09/01/2021 1614	09/09/2021 0443	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0443	JG
Sulfate	ND		5.0		mg/L	1	09/01/2021 1614	09/09/2021 0443	JG
Calculation-Ion Balance									
Anion	1.74				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation	0.818				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation/Anion, % Difference	36.1				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	ND		5.0	D1	mg/L	10	09/07/2021 1600	09/08/2021 1242	JG
Alkalinity-SM2320B									
Alkalinity, Bicarbonate (As CaCO3)	76		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Total (As CaCO3)	76		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Specific Conductance-SM2510 B									
Conductivity	120		0.10		µmhos/cm	1	09/10/2021 1435	09/10/2021 1515	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	240		20		mg/L	1	09/07/2021 0830	09/13/2021 1640	AGC

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-09

Client Sample ID: ONH-09121
Collection Date/Time: 09/01/2021 1340
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	480		10		mg/L	1	09/07/2021 0828	09/13/2021 1618	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	09/07/2021 1100	09/07/2021 1623	JG
Silica-SM4500-SiO2 C									
Silica	4.9		2.0		mg/L	1	09/08/2021 1100	09/08/2021 1312	AGC
pH-SW9045D									
pH (pH Units)	7.4			H5	-	1	09/02/2021 1120	09/02/2021 1601	CWB
Temperature (°C)	22			H5	-	1	09/02/2021 1120	09/02/2021 1601	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-10

Client Sample ID: SCR-RR-09121
Collection Date/Time: 09/01/2021 1415
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	51		22		mg/L	1	09/13/2021 1025	09/14/2021 1332	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	130				mg/L	1	09/06/2021 0735	09/07/2021 1351	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	0.78				mg/L	10	09/07/2021 1600	09/09/2021 0503	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	0.78		0.10		mg/L	1	09/01/2021 1614	09/09/2021 0503	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.025	0.0032	0.10	E4	mg/L	1	09/13/2021 1025	09/14/2021 1332	MH
Calcium	20		4.0		mg/L	1	09/13/2021 1025	09/14/2021 1332	MH
Iron	ND		0.30		mg/L	1	09/13/2021 1025	09/14/2021 1332	MH
Magnesium	ND		3.0		mg/L	1	09/13/2021 1025	09/14/2021 1332	MH
Potassium	7.1		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1332	MH
Silica	6.0		0.20		mg/L	1	09/13/2021 1025	09/14/2021 1332	MH
Sodium	ND		5.0		mg/L	1	09/13/2021 1025	09/14/2021 1332	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	ND		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1352	CR
Antimony	0.00059		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1352	CR
Arsenic	0.0023		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1352	CR
Barium	0.047		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1352	CR
Beryllium	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1352	CR
Cadmium	ND		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1352	CR
Chromium	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1352	CR
Cobalt	0.00028		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1352	CR
Copper	0.0079		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1352	CR
Lead	ND		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1352	CR
Manganese	0.028		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1352	CR
Molybdenum	0.011		0.00025		mg/L	1	09/13/2021 1025	09/15/2021 1352	CR
Nickel	0.0018		0.00050		mg/L	1	09/13/2021 1025	09/15/2021 1352	CR
Selenium	ND	0.00025	0.0025	E8	mg/L	1	09/13/2021 1025	09/15/2021 1352	CR
Silver	0.000021	0.000021	0.00050	E4	mg/L	1	09/13/2021 1025	09/15/2021 1352	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-10

Client Sample ID: SCR-RR-09121
Collection Date/Time: 09/01/2021 1415
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	09/13/2021 1025	09/15/2021 1352	CR
Zinc	ND		0.040		mg/L	1	09/13/2021 1025	09/15/2021 1352	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	ND	0.000041	0.0010	E8	mg/L	1	09/14/2021 0915	09/14/2021 1333	MH
Turbidity-E180.1									
Turbidity	1400		5.0		NTU	50	09/02/2021 1620	09/02/2021 1711	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.058	0.0032	0.10	E4	mg/L	1	09/06/2021 0735	09/07/2021 1352	MH
Calcium	32		4.0		mg/L	1	09/06/2021 0735	09/07/2021 1351	MH
Iron	25		0.30		mg/L	1	09/06/2021 0735	09/07/2021 1351	MH
Magnesium	11		3.0		mg/L	1	09/06/2021 0735	09/07/2021 1351	MH
Potassium	14		5.0		mg/L	1	09/06/2021 0735	09/07/2021 1351	MH
Silica	120		2.0		mg/L	10	09/06/2021 0735	09/07/2021 1437	MH
Sodium	ND		5.0		mg/L	1	09/06/2021 0735	09/07/2021 1351	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	23		4.0		mg/L	100	09/03/2021 1200	09/08/2021 1242	CR
Antimony	ND		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1253	CR
Arsenic	0.010		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1253	CR
Barium	0.29		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1253	CR
Beryllium	0.0024		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1253	CR
Cadmium	0.00052		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1253	CR
Chromium	0.014		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1253	CR
Cobalt	0.0139		0.000250		mg/L	1	09/03/2021 1200	09/07/2021 1253	CR
Copper	0.056		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1253	CR
Lead	0.047		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1253	CR
Manganese	1.3		0.025		mg/L	100	09/03/2021 1200	09/08/2021 1242	CR
Molybdenum	0.0042		0.00025		mg/L	1	09/03/2021 1200	09/07/2021 1253	CR
Nickel	0.016		0.00050	B7	mg/L	1	09/03/2021 1200	09/07/2021 1253	CR
Selenium	0.034		0.0025		mg/L	1	09/03/2021 1200	09/07/2021 1253	CR
Silver	ND	0.0021	0.050	E8	mg/L	100	09/03/2021 1200	09/08/2021 1242	CR
Thallium	0.00029	0.000023	0.00050	E4	mg/L	1	09/03/2021 1200	09/07/2021 1253	CR
Uranium	0.0022		0.00050		mg/L	1	09/03/2021 1200	09/07/2021 1253	CR
Zinc	0.13		0.040		mg/L	1	09/03/2021 1200	09/07/2021 1253	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-10

Client Sample ID: SCR-RR-09121
Collection Date/Time: 09/01/2021 1415
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
CVAA Total Mercury-E245.1									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/08/2021 0810	09/08/2021 1355	CR
Anions by Ion Chromatography-E300.0 (2.1)									
Chloride	2.0		1.0		mg/L	1	09/01/2021 1614	09/09/2021 0503	JG
Fluoride	ND		0.50		mg/L	1	09/01/2021 1614	09/03/2021 1014	JG
Nitrogen, Nitrate (As N)	0.78		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0503	JG
Nitrogen, Nitrite (As N)	ND		0.10	C4	mg/L	1	09/01/2021 1614	09/09/2021 0503	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	C4	mg/L	1	09/01/2021 1614	09/09/2021 0503	JG
Sulfate	6.2		5.0		mg/L	1	09/01/2021 1614	09/09/2021 0503	JG
Calculation-Ion Balance									
Anion	1.96				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation	1.18				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Cation/Anion, % Difference	24.8				meq/L	1	09/17/2021 1643	09/17/2021 1643	KB
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	ND		5.0	D1	mg/L	10	09/07/2021 1600	09/08/2021 1242	JG
Alkalinity-SM2320B									
Alkalinity, Bicarbonate (As CaCO3)	78		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Alkalinity, Total (As CaCO3)	78		2.0		mg/L	1	09/09/2021 0940	09/09/2021 1342	AGC
Specific Conductance-SM2510 B									
Conductivity	170		0.10		µmhos/cm	1	09/10/2021 1435	09/10/2021 1515	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	340		20		mg/L	1	09/07/2021 0830	09/13/2021 1640	AGC

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Lab Sample ID: 21I0062-10

Client Sample ID: SCR-RR-09121
Collection Date/Time: 09/01/2021 1415
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	700		10		mg/L	1	09/07/2021 0828	09/13/2021 1618	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	09/10/2021 0845	09/10/2021 1325	JG
Silica-SM4500-SiO2 C									
Silica	6.0		2.0		mg/L	1	09/08/2021 1100	09/08/2021 1312	AGC
pH-SW9045D									
pH (pH Units)	7.7			H5	-	1	09/02/2021 1120	09/02/2021 1551	CWB
Temperature (°C)	22			H5	-	1	09/02/2021 1120	09/02/2021 1551	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Date Received: 09/01/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109054 - E200.7 (4.4)										
Blank (2109054-BLK1) Prepared: 09/06/2021 Analyzed: 09/07/2021										
Boron	ND	0.10	mg/L							
Calcium	ND	4.0	mg/L							
Iron	0.0036	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Potassium	ND	5.0	mg/L							
Silica	ND	0.20	mg/L							
Sodium	ND	5.0	mg/L							
LCS (2109054-BS1) Prepared: 09/06/2021 Analyzed: 09/07/2021										
Boron	1.0	0.10	mg/L	1.000		103	85-115			
Calcium	11	4.0	mg/L	10.00		105	85-115			
Iron	1.0	0.30	mg/L	1.000		103	85-115			
Magnesium	10	3.0	mg/L	10.00		103	85-115			
Potassium	10	5.0	mg/L	10.00		101	85-115			
Sodium	10	5.0	mg/L	10.00		103	85-115			
LCS (2109054-BS2) Prepared: 09/06/2021 Analyzed: 09/07/2021										
Silica	9.6	0.20	mg/L	10.00		96	85-115			
LCS Dup (2109054-BSD1) Prepared: 09/06/2021 Analyzed: 09/07/2021										
Boron	1.1	0.10	mg/L	1.000		107	85-115	4	20	
Calcium	11	4.0	mg/L	10.00		110	85-115	5	20	
Iron	1.1	0.30	mg/L	1.000		108	85-115	4	20	
Magnesium	11	3.0	mg/L	10.00		108	85-115	4	20	
Potassium	11	5.0	mg/L	10.00		106	85-115	4	20	
Sodium	11	5.0	mg/L	10.00		107	85-115	5	20	
LCS Dup (2109054-BSD2) Prepared: 09/06/2021 Analyzed: 09/07/2021										
Silica	10	0.20	mg/L	10.00		102	85-115	6	20	
Matrix Spike (2109054-MS1) Source: 2110015-01 Prepared: 09/06/2021 Analyzed: 09/07/2021										
Boron	1.2	0.10	mg/L	1.000	0.15	105	70-130			
Calcium	91	4.0	mg/L	10.00	83	90	70-130			
Iron	1.1	0.30	mg/L	1.000	0.052	100	70-130			
Magnesium	24	3.0	mg/L	10.00	14	97	70-130			
Potassium	15	5.0	mg/L	10.00	5.1	104	70-130			
Sodium	130	5.0	mg/L	10.00	120	95	70-130			
Matrix Spike (2109054-MS2) Source: 2110015-02 Prepared: 09/06/2021 Analyzed: 09/07/2021										
Boron	1.2	0.10	mg/L	1.000	0.15	103	70-130			
Calcium	92	4.0	mg/L	10.00	85	71	70-130			
Iron	1.1	0.30	mg/L	1.000	0.056	100	70-130			
Magnesium	24	3.0	mg/L	10.00	14	95	70-130			
Potassium	15	5.0	mg/L	10.00	5.2	100	70-130			
Sodium	120	5.0	mg/L	10.00	120	29	70-130			M3
Matrix Spike (2109054-MS3) Source: 2110020-01 Prepared: 09/06/2021 Analyzed: 09/07/2021										
Silica	24	0.20	mg/L	10.00	15	94	70-130			
Batch 2109055 - E245.1										

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21H0062
Date Received: 09/01/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109055 - E245.1										
Blank (2109055-BLK1)				Prepared & Analyzed: 09/07/2021						
Mercury	ND	0.0010	mg/L							
LCS (2109055-BS1)				Prepared & Analyzed: 09/07/2021						
Mercury	0.0047	0.0010	mg/L	0.005000		94	85-115			
LCS Dup (2109055-BSD1)				Prepared & Analyzed: 09/07/2021						
Mercury	0.0047	0.0010	mg/L	0.005000		95	85-115	1	20	
Matrix Spike (2109055-MS1)				Source: 21H0612-01		Prepared & Analyzed: 09/07/2021				
Mercury	0.0047	0.0010	mg/L	0.005000	ND	94	70-130			
Matrix Spike (2109055-MS2)				Source: 21H0707-01		Prepared & Analyzed: 09/07/2021				
Mercury	0.0045	0.0010	mg/L	0.005000	0.00038	82	70-130			
Matrix Spike Dup (2109055-MSD1)				Source: 21H0612-01		Prepared & Analyzed: 09/07/2021				
Mercury	0.0046	0.0010	mg/L	0.005000	ND	92	70-130	3	20	
Matrix Spike Dup (2109055-MSD2)				Source: 21H0707-01		Prepared & Analyzed: 09/07/2021				
Mercury	0.0045	0.0010	mg/L	0.005000	0.00038	83	70-130	0.2	20	
Batch 2109065 - E200.8 (5.4)										
Blank (2109065-BLK1)				Prepared: 09/03/2021 Analyzed: 09/07/2021						
Aluminum	ND	0.040	mg/L							
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Cobalt	ND	0.000250	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Manganese	ND	0.00025	mg/L							
Molybdenum	ND	0.00025	mg/L							
Nickel	0.00090	0.00050	mg/L							B1
Selenium	ND	0.0015	mg/L							
Silver	0.000049	0.00050	mg/L							
Thallium	ND	0.00050	mg/L							
Uranium	ND	0.00050	mg/L							
Zinc	ND	0.040	mg/L							

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Date Received: 09/01/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109065 - E200.8 (5.4)										
LCS (2109065-BS1)										
					Prepared: 09/03/2021 Analyzed: 09/07/2021					
Aluminum	0.11	0.040	mg/L	0.1000		109	85-115			
Antimony	0.049	0.00050	mg/L	0.05000		99	85-115			
Arsenic	0.051	0.00050	mg/L	0.05000		101	85-115			
Barium	0.049	0.00050	mg/L	0.05000		99	85-115			
Beryllium	0.050	0.00025	mg/L	0.05000		100	85-115			
Cadmium	0.050	0.00025	mg/L	0.05000		99	85-115			
Chromium	0.050	0.00050	mg/L	0.05000		100	85-115			
Cobalt	0.0498	0.000250	mg/L	0.05000		100	85-115			
Copper	0.050	0.00050	mg/L	0.05000		101	85-115			
Lead	0.050	0.00050	mg/L	0.05000		100	85-115			
Manganese	0.051	0.00025	mg/L	0.05000		101	85-115			
Molybdenum	0.050	0.00025	mg/L	0.05000		99	85-115			
Nickel	0.051	0.00050	mg/L	0.05000		102	85-115			
Selenium	0.050	0.0015	mg/L	0.05000		101	85-115			
Silver	0.046	0.00050	mg/L	0.05000		93	85-115			
Thallium	0.049	0.00050	mg/L	0.05000		97	85-115			
Uranium	0.049	0.00050	mg/L	0.05000		99	85-115			
Zinc	0.11	0.040	mg/L	0.1000		106	85-115			

LCS Dup (2109065-BS1)										
					Prepared: 09/03/2021 Analyzed: 09/07/2021					
Aluminum	0.11	0.040	mg/L	0.1000		108	85-115	0.7	20	
Antimony	0.050	0.00050	mg/L	0.05000		100	85-115	2	20	
Arsenic	0.047	0.00050	mg/L	0.05000		95	85-115	7	20	
Barium	0.050	0.00050	mg/L	0.05000		100	85-115	0.7	20	
Beryllium	0.050	0.00025	mg/L	0.05000		100	85-115	0.1	20	
Cadmium	0.049	0.00025	mg/L	0.05000		99	85-115	0.4	20	
Chromium	0.049	0.00050	mg/L	0.05000		99	85-115	0.9	20	
Cobalt	0.0487	0.000250	mg/L	0.05000		97	85-115	2	20	
Copper	0.048	0.00050	mg/L	0.05000		96	85-115	4	20	
Lead	0.050	0.00050	mg/L	0.05000		99	85-115	0.2	20	
Manganese	0.050	0.00025	mg/L	0.05000		99	85-115	2	20	
Molybdenum	0.048	0.00025	mg/L	0.05000		97	85-115	2	20	
Nickel	0.049	0.00050	mg/L	0.05000		98	85-115	4	20	
Selenium	0.049	0.0015	mg/L	0.05000		98	85-115	3	20	
Silver	0.047	0.00050	mg/L	0.05000		94	85-115	0.9	20	
Thallium	0.049	0.00050	mg/L	0.05000		98	85-115	0.5	20	
Uranium	0.049	0.00050	mg/L	0.05000		99	85-115	0.2	20	
Zinc	0.10	0.040	mg/L	0.1000		101	85-115	5	20	

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Date Received: 09/01/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	
Batch 2109065 - E200.8 (5.4)											
Matrix Spike (2109065-MS1)		Source: 2110086-01			Prepared: 09/03/2021 Analyzed: 09/08/2021						
Aluminum	3.7	0.80	mg/L	0.1000	3.8	NR	70-130			M2	
Antimony	0.042	0.00050	mg/L	0.05000	0.00073	83	70-130				
Arsenic	0.057	0.00050	mg/L	0.05000	0.0076	98	70-130				
Barium	0.13	0.00050	mg/L	0.05000	0.072	120	70-130				
Beryllium	0.046	0.00025	mg/L	0.05000	0.00062	91	70-130				
Cadmium	0.052	0.00025	mg/L	0.05000	0.0034	96	70-130				
Chromium	0.050	0.00050	mg/L	0.05000	0.0028	95	70-130				
Cobalt	0.0626	0.000250	mg/L	0.05000	0.0171	91	70-130				
Copper	0.076	0.00050	mg/L	0.05000	0.033	84	70-130				
Lead	0.071	0.00050	mg/L	0.05000	0.019	105	70-130				
Manganese	8.6	0.0050	mg/L	0.05000	9.0	NR	70-130			M3	
Molybdenum	0.051	0.00025	mg/L	0.05000	0.0015	99	70-130				
Nickel	0.069	0.00050	mg/L	0.05000	0.024	88	70-130				
Selenium	0.058	0.0015	mg/L	0.05000	0.013	91	70-130				
Silver	0.041	0.00050	mg/L	0.05000	0.00016	81	70-130				
Thallium	0.052	0.00050	mg/L	0.05000	0.00047	103	70-130				
Uranium	0.058	0.00050	mg/L	0.05000	0.00051	114	70-130				
Zinc	0.65	0.040	mg/L	0.1000	0.55	102	70-130				
Matrix Spike (2109065-MS2)		Source: 2110087-01			Prepared: 09/03/2021 Analyzed: 09/07/2021						
Aluminum	0.29	0.040	mg/L	0.1000	0.19	99	70-130				
Antimony	0.048	0.00050	mg/L	0.05000	0.00033	96	70-130				
Arsenic	0.048	0.00050	mg/L	0.05000	0.00095	95	70-130				
Barium	0.067	0.00050	mg/L	0.05000	0.034	67	70-130			M2	
Beryllium	0.043	0.00025	mg/L	0.05000	0.00013	86	70-130				
Cadmium	0.085	0.00025	mg/L	0.05000	0.039	92	70-130				
Chromium	0.048	0.00050	mg/L	0.05000	0.0014	92	70-130				
Cobalt	0.0515	0.000250	mg/L	0.05000	0.00719	89	70-130				
Copper	0.047	0.00050	mg/L	0.05000	0.0080	78	70-130				
Lead	0.058	0.00050	mg/L	0.05000	0.0075	101	70-130				
Manganese	37	0.013	mg/L	0.05000	37	638	70-130			M3	
Molybdenum	0.051	0.00025	mg/L	0.05000	0.00096	101	70-130				
Nickel	0.070	0.00050	mg/L	0.05000	0.029	82	70-130				
Selenium	0.051	0.0015	mg/L	0.05000	0.0037	94	70-130				
Silver	0.042	0.025	mg/L	0.05000	ND	85	70-130				
Thallium	0.052	0.00050	mg/L	0.05000	0.00028	103	70-130				
Uranium	0.057	0.00050	mg/L	0.05000	0.00066	112	70-130				
Zinc	3.7	2.0	mg/L	0.1000	3.6	99	70-130				
Batch 2109076 - E245.1											
Blank (2109076-BLK1)		Prepared & Analyzed: 09/08/2021									
Mercury	ND	0.0010	mg/L								
LCS (2109076-BS1)		Prepared & Analyzed: 09/08/2021									
Mercury	0.0046	0.0010	mg/L	0.005000	92	85-115					
LCS Dup (2109076-BSD1)		Prepared & Analyzed: 09/08/2021									
Mercury	0.0047	0.0010	mg/L	0.005000	94	85-115	2	20			

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21H0062
Date Received: 09/01/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109076 - E245.1										
Matrix Spike (2109076-MS1)		Source: 21H0735-01			Prepared & Analyzed: 09/08/2021					
Mercury	0.0046	0.0010	mg/L	0.005000	ND	92	70-130			
Matrix Spike (2109076-MS2)		Source: 21H0797-02			Prepared & Analyzed: 09/08/2021					
Mercury	0.0046	0.0010	mg/L	0.005000	ND	92	70-130			
Matrix Spike Dup (2109076-MSD1)		Source: 21H0735-01			Prepared & Analyzed: 09/08/2021					
Mercury	0.0046	0.0010	mg/L	0.005000	ND	91	70-130	0.6	20	
Matrix Spike Dup (2109076-MSD2)		Source: 21H0797-02			Prepared & Analyzed: 09/08/2021					
Mercury	0.0047	0.0010	mg/L	0.005000	ND	93	70-130	0.6	20	
Batch 2109145 - E 200.7 (4.4)										
Blank (2109145-BLK1)		Prepared: 09/13/2021 Analyzed: 09/14/2021								
Boron	ND	0.10	mg/L							
Calcium	ND	4.0	mg/L							
Iron	ND	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Potassium	ND	5.0	mg/L							
Silica	ND	0.20	mg/L							
Sodium	ND	5.0	mg/L							
LCS (2109145-BS1)		Prepared: 09/13/2021 Analyzed: 09/14/2021								
Boron	0.99	0.10	mg/L	1.000		99	85-115			
Calcium	9.3	4.0	mg/L	10.00		93	85-115			
Iron	0.93	0.30	mg/L	1.000		93	85-115			
Magnesium	9.5	3.0	mg/L	10.00		95	85-115			
Potassium	10	5.0	mg/L	10.00		104	85-115			
Sodium	11	5.0	mg/L	10.00		110	85-115			
LCS (2109145-BS2)		Prepared: 09/13/2021 Analyzed: 09/14/2021								
Silica	2.1	0.20	mg/L	2.143		98	85-115			
LCS Dup (2109145-BSD1)		Prepared: 09/13/2021 Analyzed: 09/14/2021								
Boron	0.99	0.10	mg/L	1.000		99	85-115	0.03	20	
Calcium	9.4	4.0	mg/L	10.00		94	85-115	0.3	20	
Iron	0.93	0.30	mg/L	1.000		93	85-115	0.08	20	
Magnesium	9.4	3.0	mg/L	10.00		94	85-115	0.1	20	
Potassium	10	5.0	mg/L	10.00		104	85-115	0.04	20	
Sodium	11	5.0	mg/L	10.00		111	85-115	0.8	20	
LCS Dup (2109145-BSD2)		Prepared: 09/13/2021 Analyzed: 09/14/2021								
Silica	2.1	0.20	mg/L	2.143		98	85-115	0.5	20	
Matrix Spike (2109145-MS1)		Source: 21H0062-01			Prepared: 09/13/2021 Analyzed: 09/14/2021					
Boron	1.2	0.10	mg/L	1.000	0.018	121	70-130			
Calcium	36	4.0	mg/L	10.00	27	94	70-130			
Iron	1.0	0.30	mg/L	1.000	0.0073	101	70-130			
Magnesium	15	3.0	mg/L	10.00	5.6	99	70-130			
Potassium	16	5.0	mg/L	10.00	4.5	112	70-130			
Sodium	16	5.0	mg/L	10.00	4.0	120	70-130			

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Date Received: 09/01/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109145 - E 200.7 (4.4)										
Matrix Spike (2109145-MS2)		Source: 21I0083-01			Prepared: 09/13/2021 Analyzed: 09/14/2021					
Boron	1.1	0.10	mg/L	1.000	0.017	109	70-130			
Calcium	59	4.0	mg/L	10.00	50	94	70-130			
Iron	1.0	0.30	mg/L	1.000	ND	104	70-130			
Magnesium	14	3.0	mg/L	10.00	4.4	101	70-130			
Potassium	13	5.0	mg/L	10.00	2.7	104	70-130			
Sodium	11	5.0	mg/L	10.00	ND	114	70-130			
Matrix Spike (2109145-MS3)		Source: 21I0062-01			Prepared: 09/13/2021 Analyzed: 09/14/2021					
Silica	16	0.20	mg/L	2.143	13	102	70-130			
Matrix Spike (2109145-MS4)		Source: 21I0083-01			Prepared: 09/13/2021 Analyzed: 09/14/2021					
Silica	4.9	0.20	mg/L	2.143	2.8	100	70-130			
Batch 2109149 - E 200.8 (5.4)										
Blank (2109149-BLK1)				Prepared: 09/13/2021 Analyzed: 09/15/2021						
Aluminum	ND	0.040	mg/L							
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Cobalt	ND	0.00025	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Manganese	ND	0.00025	mg/L							
Molybdenum	ND	0.00025	mg/L							
Nickel	ND	0.00050	mg/L							
Selenium	ND	0.0025	mg/L							
Silver	0.000031	0.00050	mg/L							
Thallium	ND	0.00050	mg/L							
Zinc	ND	0.040	mg/L							

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109149 - E 200.8 (5.4)										
LCS (2109149-BS1)										
					Prepared: 09/13/2021 Analyzed: 09/15/2021					
Aluminum	0.10	0.040	mg/L	0.1000		104	85-115			
Antimony	0.051	0.00050	mg/L	0.05000		101	85-115			
Arsenic	0.048	0.00050	mg/L	0.05000		95	85-115			
Barium	0.049	0.00050	mg/L	0.05000		98	85-115			
Beryllium	0.051	0.00025	mg/L	0.05000		102	85-115			
Cadmium	0.051	0.00025	mg/L	0.05000		102	85-115			
Chromium	0.049	0.00050	mg/L	0.05000		98	85-115			
Cobalt	0.048	0.00025	mg/L	0.05000		95	85-115			
Copper	0.046	0.00050	mg/L	0.05000		93	85-115			
Lead	0.052	0.00050	mg/L	0.05000		104	85-115			
Manganese	0.049	0.00025	mg/L	0.05000		98	85-115			
Molybdenum	0.049	0.00025	mg/L	0.05000		98	85-115			
Nickel	0.047	0.00050	mg/L	0.05000		95	85-115			
Selenium	0.048	0.0025	mg/L	0.05000		95	85-115			
Silver	0.044	0.00050	mg/L	0.05000		89	85-115			
Thallium	0.047	0.00050	mg/L	0.05000		94	85-115			
Zinc	0.10	0.040	mg/L	0.1000		104	85-115			
LCS Dup (2109149-BS1)										
					Prepared: 09/13/2021 Analyzed: 09/15/2021					
Aluminum	0.10	0.040	mg/L	0.1000		103	85-115	0.9	20	
Antimony	0.051	0.00050	mg/L	0.05000		103	85-115	2	20	
Arsenic	0.048	0.00050	mg/L	0.05000		96	85-115	0.9	20	
Barium	0.050	0.00050	mg/L	0.05000		100	85-115	2	20	
Beryllium	0.051	0.00025	mg/L	0.05000		102	85-115	0.4	20	
Cadmium	0.052	0.00025	mg/L	0.05000		104	85-115	2	20	
Chromium	0.049	0.00050	mg/L	0.05000		97	85-115	0.3	20	
Cobalt	0.048	0.00025	mg/L	0.05000		96	85-115	0.6	20	
Copper	0.047	0.00050	mg/L	0.05000		93	85-115	0.6	20	
Lead	0.052	0.00050	mg/L	0.05000		103	85-115	0.6	20	
Manganese	0.050	0.00025	mg/L	0.05000		99	85-115	1	20	
Molybdenum	0.049	0.00025	mg/L	0.05000		99	85-115	1	20	
Nickel	0.048	0.00050	mg/L	0.05000		95	85-115	1	20	
Selenium	0.051	0.0025	mg/L	0.05000		101	85-115	6	20	
Silver	0.045	0.00050	mg/L	0.05000		90	85-115	1	20	
Thallium	0.047	0.00050	mg/L	0.05000		95	85-115	0.5	20	
Zinc	0.10	0.040	mg/L	0.1000		105	85-115	0.7	20	

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109149 - E 200.8 (5.4)										
Matrix Spike (2109149-MS1)		Source: 2110062-02			Prepared: 09/13/2021 Analyzed: 09/15/2021					
Aluminum	0.12	0.040	mg/L	0.1000	ND	116	70-130			
Antimony	0.056	0.00050	mg/L	0.05000	0.0014	109	70-130			
Arsenic	0.058	0.00050	mg/L	0.05000	0.0025	111	70-130			
Barium	0.078	0.00050	mg/L	0.05000	0.028	100	70-130			
Beryllium	0.056	0.00025	mg/L	0.05000	ND	112	70-130			
Cadmium	0.051	0.00025	mg/L	0.05000	0.000073	103	70-130			
Chromium	0.053	0.00050	mg/L	0.05000	0.00033	105	70-130			
Cobalt	0.050	0.00025	mg/L	0.05000	0.000036	100	70-130			
Copper	0.080	0.00050	mg/L	0.05000	0.032	95	70-130			
Lead	0.060	0.00050	mg/L	0.05000	ND	120	70-130			
Manganese	0.064	0.00025	mg/L	0.05000	0.011	106	70-130			
Molybdenum	0.20	0.00025	mg/L	0.05000	0.15	93	70-130			
Nickel	0.049	0.00050	mg/L	0.05000	0.00017	97	70-130			
Selenium	0.060	0.0025	mg/L	0.05000	0.0015	116	70-130			
Silver	0.035	0.00050	mg/L	0.05000	0.000036	70	70-130			
Thallium	0.056	0.00050	mg/L	0.05000	0.000024	112	70-130			
Zinc	0.11	0.040	mg/L	0.1000	0.0065	108	70-130			
Matrix Spike (2109149-MS2)		Source: 2110083-02			Prepared: 09/13/2021 Analyzed: 09/15/2021					
Aluminum	0.14	0.040	mg/L	0.1000	0.036	100	70-130			
Antimony	0.056	0.00050	mg/L	0.05000	0.00054	112	70-130			
Arsenic	0.059	0.00050	mg/L	0.05000	0.0079	102	70-130			
Barium	0.12	0.00050	mg/L	0.05000	0.067	104	70-130			
Beryllium	0.054	0.00025	mg/L	0.05000	0.000013	108	70-130			
Cadmium	0.052	0.00025	mg/L	0.05000	ND	104	70-130			
Chromium	0.049	0.00050	mg/L	0.05000	0.00021	98	70-130			
Cobalt	0.048	0.00025	mg/L	0.05000	0.0010	93	70-130			
Copper	0.049	0.00050	mg/L	0.05000	0.0041	90	70-130			
Lead	0.054	0.00050	mg/L	0.05000	0.00032	108	70-130			
Manganese	0.45	0.00025	mg/L	0.05000	0.41	88	70-130			
Molybdenum	0.091	0.00025	mg/L	0.05000	0.040	103	70-130			
Nickel	0.047	0.00050	mg/L	0.05000	0.0019	91	70-130			
Selenium	0.050	0.0025	mg/L	0.05000	0.00066	98	70-130			
Silver	0.036	0.00050	mg/L	0.05000	0.000078	72	70-130			
Thallium	0.050	0.00050	mg/L	0.05000	ND	101	70-130			
Zinc	0.10	0.040	mg/L	0.1000	0.0030	101	70-130			
Batch 2109159 - E 245.1										
Blank (2109159-BLK1)					Prepared & Analyzed: 09/14/2021					
Mercury	ND	0.0010	mg/L							
LCS (2109159-BS1)					Prepared & Analyzed: 09/14/2021					
Mercury	0.0049	0.0010	mg/L	0.005000		99	85-115			
LCS Dup (2109159-BSD1)					Prepared & Analyzed: 09/14/2021					
Mercury	0.0050	0.0010	mg/L	0.005000		99	85-115	0.4	20	
Matrix Spike (2109159-MS1)		Source: 2110083-01			Prepared & Analyzed: 09/14/2021					
Mercury	0.0049	0.0010	mg/L	0.005000	ND	98	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109159 - E 245.1										
Matrix Spike (2109159-MS2)		Source: 2110084-01		Prepared & Analyzed: 09/14/2021						
Mercury	0.0048	0.0010	mg/L	0.005000	0.000053	95	70-130			
Matrix Spike Dup (2109159-MSD1)		Source: 2110083-01		Prepared & Analyzed: 09/14/2021						
Mercury	0.0049	0.0010	mg/L	0.005000	ND	97	70-130	0.9	20	
Matrix Spike Dup (2109159-MSD2)		Source: 2110084-01		Prepared & Analyzed: 09/14/2021						
Mercury	0.0048	0.0010	mg/L	0.005000	0.000053	94	70-130	0.9	20	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Qual
Batch 2109049 - SW9045D										
Duplicate (2109049-DUP1)		Source: 21I0062-03			Prepared & Analyzed: 09/02/2021					
pH (pH Units)	7.4		-		7.3			0.4	200	H5
Temperature (°C)	21		-		21			1	200	H5
Duplicate (2109049-DUP2)		Source: 21I0062-10			Prepared & Analyzed: 09/02/2021					
pH (pH Units)	7.7		-		7.7			0.1	200	H5
Temperature (°C)	22		-		22			0.5	200	H5
Batch 2109053 - E180.1										
Duplicate (2109053-DUP1)		Source: 21I0062-10			Prepared & Analyzed: 09/02/2021					
Turbidity	1500	5.0	NTU		1400			7	10	
Batch 2109060 - SM2540 D										
Duplicate (2109060-DUP1)		Source: 21I0001-01			Prepared: 09/07/2021 Analyzed: 09/13/2021					
Total Suspended Solids	ND	10	mg/L		ND				5	Q9, R12
Duplicate (2109060-DUP2)		Source: 21I0020-01			Prepared: 09/07/2021 Analyzed: 09/13/2021					
Total Suspended Solids	ND	10	mg/L		ND				5	Q9
Batch 2109061 - SM2540 C										
Duplicate (2109061-DUP1)		Source: 21I0048-01			Prepared: 09/07/2021 Analyzed: 09/13/2021					
Total Dissolved Solids (Residue, Filterable)	890	20	mg/L		890			0	5	
Duplicate (2109061-DUP2)		Source: 21I0048-02			Prepared: 09/07/2021 Analyzed: 09/13/2021					
Total Dissolved Solids (Residue, Filterable)	1200	20	mg/L		1100			2	5	
Duplicate (2109061-DUP3)		Source: 21I0048-03			Prepared: 09/07/2021 Analyzed: 09/13/2021					
Total Dissolved Solids (Residue, Filterable)	1500	20	mg/L		1500			0.7	5	
Batch 2109086 - SM4500-SiO2 C										
Blank (2109086-BLK1)					Prepared & Analyzed: 09/08/2021					
Silica	ND	2.0	mg/L							
LCS (2109086-BS1)					Prepared & Analyzed: 09/08/2021					
Silica	8.3	2.0	mg/L		8.000	103	90-110			
LCS Dup (2109086-BSD1)					Prepared & Analyzed: 09/08/2021					
Silica	8.2	2.0	mg/L		8.000	103	90-110	0.6	20	
Matrix Spike (2109086-MS1)		Source: 21I0015-01			Prepared & Analyzed: 09/08/2021					
Silica	72	10	mg/L		40.00	27	112	85-115		
Matrix Spike Dup (2109086-MSD1)		Source: 21I0015-01			Prepared & Analyzed: 09/08/2021					
Silica	70	10	mg/L		40.00	27	109	85-115	2	20
Batch 2109087 - PAI-DK01										
Blank (2109087-BLK1)					Prepared: 09/07/2021 Analyzed: 09/08/2021					
Nitrogen, Total Kjeldahl	ND	0.50	mg/L							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109087 - PAI-DK01										
LCS (2109087-BS1)				Prepared: 09/07/2021 Analyzed: 09/08/2021						
Nitrogen, Total Kjeldahl	5.0	0.50	mg/L	5.000		101	80-120			
LCS Dup (2109087-BSD1)				Prepared: 09/07/2021 Analyzed: 09/08/2021						
Nitrogen, Total Kjeldahl	4.9	0.50	mg/L	5.000		97	80-120	4	20	
Matrix Spike (2109087-MS1)		Source: 2110016-02		Prepared: 09/07/2021 Analyzed: 09/08/2021						
Nitrogen, Total Kjeldahl	4.6	0.50	mg/L	5.000	ND	92	80-120			
Matrix Spike (2109087-MS2)		Source: 2110024-01		Prepared: 09/07/2021 Analyzed: 09/08/2021						
Nitrogen, Total Kjeldahl	4.8	0.50	mg/L	5.000	ND	96	80-120			
Matrix Spike Dup (2109087-MSD1)		Source: 2110016-02		Prepared: 09/07/2021 Analyzed: 09/08/2021						
Nitrogen, Total Kjeldahl	4.8	0.50	mg/L	5.000	ND	96	80-120	4	20	
Matrix Spike Dup (2109087-MSD2)		Source: 2110024-01		Prepared: 09/07/2021 Analyzed: 09/08/2021						
Nitrogen, Total Kjeldahl	5.4	0.50	mg/L	5.000	ND	108	80-120	11	20	
Batch 2109088 - SM4500-NH3 B,C										
Blank (2109088-BLK1)				Prepared & Analyzed: 09/07/2021						
Nitrogen, Ammonia (As N)	ND	0.50	mg/L							
LCS (2109088-BS1)				Prepared & Analyzed: 09/07/2021						
Nitrogen, Ammonia (As N)	5.0	0.50	mg/L	5.000		99	90-110			
LCS Dup (2109088-BSD1)				Prepared & Analyzed: 09/07/2021						
Nitrogen, Ammonia (As N)	5.0	0.50	mg/L	5.000		99	90-110	0.5	10	
Matrix Spike (2109088-MS1)		Source: 21H0540-01		Prepared & Analyzed: 09/07/2021						
Nitrogen, Ammonia (As N)	5.0	0.50	mg/L	5.000	0.18	96	75-120			
Matrix Spike (2109088-MS2)		Source: 21H0585-01		Prepared & Analyzed: 09/07/2021						
Nitrogen, Ammonia (As N)	4.9	0.50	mg/L	5.000	0.27	93	75-120			
Matrix Spike Dup (2109088-MSD1)		Source: 21H0540-01		Prepared & Analyzed: 09/07/2021						
Nitrogen, Ammonia (As N)	5.0	0.50	mg/L	5.000	0.18	96	75-120	0	20	
Matrix Spike Dup (2109088-MSD2)		Source: 21H0585-01		Prepared & Analyzed: 09/07/2021						
Nitrogen, Ammonia (As N)	5.0	0.50	mg/L	5.000	0.27	95	75-120	1	20	
Batch 2109119 - SM2320B										
Blank (2109119-BLK1)				Prepared & Analyzed: 09/09/2021						
Alkalinity, Bicarbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Carbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Hydroxide (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Total (As CaCO3)	ND	2.0	mg/L							
LCS (2109119-BS1)				Prepared & Analyzed: 09/09/2021						
Alkalinity, Total (As CaCO3)	250	2.0	mg/L	250.0		101	90-110			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109119 - SM2320B										
LCS Dup (2109119-BSD1)				Prepared & Analyzed: 09/09/2021						
Alkalinity, Total (As CaCO3)	250	2.0	mg/L	250.0		100	90-110	0.8	10	
Matrix Spike (2109119-MS1)				Source: 21I0087-01		Prepared & Analyzed: 09/09/2021				
Alkalinity, Total (As CaCO3)	310	2.0	mg/L	250.0	78	94	70-130			
Matrix Spike Dup (2109119-MSD1)				Source: 21I0087-01		Prepared & Analyzed: 09/09/2021				
Alkalinity, Total (As CaCO3)	320	2.0	mg/L	250.0	78	95	70-130	1	10	
Batch 2109131 - SM2510 B										
LCS (2109131-BS1)				Prepared & Analyzed: 09/10/2021						
Conductivity	150	0.10	µmhos/cm	141.2		103	0-200			
LCS Dup (2109131-BSD1)				Prepared & Analyzed: 09/10/2021						
Conductivity	150	0.10	µmhos/cm	141.2		105	0-200	1	200	
Duplicate (2109131-DUP1)				Source: 21H0777-01		Prepared & Analyzed: 09/10/2021				
Conductivity	830	0.10	µmhos/cm		870			5	10	
Duplicate (2109131-DUP2)				Source: 21I0048-01		Prepared & Analyzed: 09/10/2021				
Conductivity	1200	0.10	µmhos/cm		1200			2	10	
Batch 2109133 - SM2510 B										
LCS (2109133-BS1)				Prepared & Analyzed: 09/10/2021						
Conductivity	160	0.10	µmhos/cm	141.2		110	0-200			
LCS Dup (2109133-BSD1)				Prepared & Analyzed: 09/10/2021						
Conductivity	150	0.10	µmhos/cm	141.2		106	0-200	3	200	
Duplicate (2109133-DUP1)				Source: 21I0015-02		Prepared & Analyzed: 09/10/2021				
Conductivity	1100	0.10	µmhos/cm		1100			2	10	
Duplicate (2109133-DUP2)				Source: 21I0084-04		Prepared & Analyzed: 09/10/2021				
Conductivity	290	0.10	µmhos/cm		290			1	10	
Batch 2109139 - SM4500-NH3 B,C										
Blank (2109139-BLK1)				Prepared & Analyzed: 09/10/2021						
Nitrogen, Ammonia (As N)	ND	0.50	mg/L							
LCS (2109139-BS1)				Prepared & Analyzed: 09/10/2021						
Nitrogen, Ammonia (As N)	5.1	0.50	mg/L	5.000		102	90-110			
LCS Dup (2109139-BSD1)				Prepared & Analyzed: 09/10/2021						
Nitrogen, Ammonia (As N)	5.1	0.50	mg/L	5.000		101	90-110	0.9	10	
Matrix Spike (2109139-MS1)				Source: 21I0012-01		Prepared & Analyzed: 09/10/2021				
Nitrogen, Ammonia (As N)	5.0	0.50	mg/L	5.000	0.45	92	75-120			
Matrix Spike (2109139-MS2)				Source: 21I0084-01		Prepared & Analyzed: 09/10/2021				
Nitrogen, Ammonia (As N)	8.0	0.50	mg/L	5.000	2.9	101	75-120			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109139 - SM4500-NH3 B,C										
Matrix Spike Dup (2109139-MSD1)		Source: 2110012-01		Prepared & Analyzed: 09/10/2021						
Nitrogen, Ammonia (As N)	5.1	0.50	mg/L	5.000	0.45	94	75-120	2	20	
Matrix Spike Dup (2109139-MSD2)		Source: 2110084-01		Prepared & Analyzed: 09/10/2021						
Nitrogen, Ammonia (As N)	8.0	0.50	mg/L	5.000	2.9	102	75-120	0.3	20	

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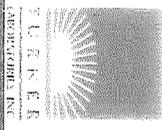
QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109013 - E300.0 (2.1)										
Blank (2109013-BLK1)										
				Prepared: 09/01/2021 Analyzed: 09/02/2021						
Chloride	ND	1.0	mg/L							
Fluoride	ND	0.50	mg/L							
Nitrogen, Nitrate (As N)	ND	0.50	mg/L							
Nitrogen, Nitrite (As N)	ND	0.10	mg/L							
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	mg/L							
Sulfate	ND	5.0	mg/L							
LCS (2109013-BS1)										
				Prepared: 09/01/2021 Analyzed: 09/02/2021						
Chloride	12	1.0	mg/L	12.50		98	90-110			
Fluoride	2.1	0.50	mg/L	2.000		104	90-110			
Nitrogen, Nitrate (As N)	4.9	0.50	mg/L	5.000		98	90-110			
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500		102	90-110			
Phosphorus, Dissolved Orthophosphate (As P)	2.5	0.50	mg/L	2.500		98	90-110			
Sulfate	13	5.0	mg/L	12.50		106	90-110			
LCS Dup (2109013-BSD1)										
				Prepared: 09/01/2021 Analyzed: 09/02/2021						
Chloride	12	1.0	mg/L	12.50		100	90-110	1	10	
Fluoride	2.1	0.50	mg/L	2.000		104	90-110	0.2	10	
Nitrogen, Nitrate (As N)	4.9	0.50	mg/L	5.000		98	90-110	0.1	10	
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500		102	90-110	0.2	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.6	0.50	mg/L	2.500		102	90-110	4	10	
Sulfate	13	5.0	mg/L	12.50		106	90-110	0.4	10	
Matrix Spike (2109013-MS1)										
		Source: 2110062-03		Prepared: 09/01/2021 Analyzed: 09/11/2021						
Chloride	13	1.0	mg/L	12.50	1.5	95	80-120			
Fluoride	1.7	0.50	mg/L	2.000	ND	84	80-120			
Nitrogen, Nitrate (As N)	5.4	0.50	mg/L	5.000	0.48	99	80-120			
Phosphorus, Dissolved Orthophosphate (As P)	2.7	0.50	mg/L	2.500	ND	110	80-120			
Sulfate	15	5.0	mg/L	12.50	5.6	79	80-120			M2
Matrix Spike (2109013-MS2)										
		Source: 2110062-04		Prepared: 09/01/2021 Analyzed: 09/11/2021						
Sulfate	17	5.0	mg/L	12.50	11	48	80-120			M2
Matrix Spike (2109013-MS3)										
		Source: 2110062-05		Prepared: 09/01/2021 Analyzed: 09/12/2021						
Sulfate	14	5.0	mg/L	12.50	4.7	78	80-120			M2
Matrix Spike (2109013-MS4)										
		Source: 2110062-06		Prepared: 09/01/2021 Analyzed: 09/14/2021						
Sulfate	16	5.0	mg/L	12.50	5.7	79	80-120			M2
Matrix Spike (2109013-MS5)										
		Source: 2110062-03		Prepared: 09/01/2021 Analyzed: 09/14/2021						
Nitrogen, Nitrite (As N)	2.8	0.10	mg/L	2.500	0.13	106	80-120			

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0062
Date Received: 09/01/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109013 - E300.0 (2.1)										
Matrix Spike Dup (2109013-MSD1)		Source: 2110062-03		Prepared: 09/01/2021 Analyzed: 09/11/2021						
Chloride	13	1.0	mg/L	12.50	1.5	95	80-120	0.2	10	
Fluoride	1.7	0.50	mg/L	2.000	ND	84	80-120	0.4	10	
Nitrogen, Nitrate (As N)	5.4	0.50	mg/L	5.000	0.48	99	80-120	0.1	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.8	0.50	mg/L	2.500	ND	110	80-120	0.8	10	
Sulfate	15	5.0	mg/L	12.50	5.6	79	80-120	0.2	10	M2
Matrix Spike Dup (2109013-MSD2)		Source: 2110062-04		Prepared: 09/01/2021 Analyzed: 09/12/2021						
Sulfate	17	5.0	mg/L	12.50	11	49	80-120	0.7	10	M2
Matrix Spike Dup (2109013-MSD3)		Source: 2110062-05		Prepared: 09/01/2021 Analyzed: 09/12/2021						
Sulfate	15	5.0	mg/L	12.50	4.7	79	80-120	1	10	M2
Matrix Spike Dup (2109013-MSD4)		Source: 2110062-06		Prepared: 09/01/2021 Analyzed: 09/14/2021						
Sulfate	15	5.0	mg/L	12.50	5.7	78	80-120	0.3	10	M2
Matrix Spike Dup (2109013-MSD5)		Source: 2110062-03		Prepared: 09/01/2021 Analyzed: 09/14/2021						
Nitrogen, Nitrite (As N)	2.8	0.10	mg/L	2.500	0.13	107	80-120	0.6	10	



2445 N. Coyote Drive, Suite 104
 Tucson, Arizona 85745
 (520) 882-5880
 Fax: (520) 882-9788
 www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 210062 DATE 9/11/21 PAGE 1 OF 1

PROJECT NAME: Stormwater # _____

CONTACT NAME: David Krizek

COMPANY NAME: Hudbay Minerals/ Rosemont Copper Company

ADDRESS: 5255 E Williams Circle, Suite 1065

CITY: Tucson STATE: AZ ZIP CODE: 85711

PHONE: 520-495-3527 FAX: _____

SAMPLER'S SIGNATURE: [Signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX [#]	NUMBER OF CONTAINERS	CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX
<u>MCCL-09121</u>	<u>9.1.21</u>	<u>7:37</u>		<u>SW</u>	<u>4</u>	<input checked="" type="checkbox"/>
<u>OWI-09121</u>		<u>9:30</u>		<u>SW</u>	<u>4</u>	<input checked="" type="checkbox"/>
<u>D1-19-09121</u>		<u>11:20</u>		<u>SW</u>	<u>4</u>	<input checked="" type="checkbox"/>
<u>D1-19-09121</u>		<u>11:30</u>		<u>SW</u>	<u>4</u>	<input checked="" type="checkbox"/>
<u>MGHS-08-09121</u>		<u>12:10</u>		<u>SW</u>	<u>4</u>	<input checked="" type="checkbox"/>
<u>MGHS-D-09121</u>		<u>12:15</u>		<u>SW</u>	<u>5</u>	<input checked="" type="checkbox"/>
<u>MGHS-W-09121</u>		<u>12:30</u>		<u>SW</u>	<u>5</u>	<input checked="" type="checkbox"/>
<u>NA-09121</u>		<u>1:10</u>		<u>SW</u>	<u>5</u>	<input checked="" type="checkbox"/>
<u>ONH-09121</u>		<u>1:40</u>		<u>SW</u>	<u>5</u>	<input checked="" type="checkbox"/>
<u>SCRE-09121</u>		<u>2:15</u>		<u>SW</u>	<u>5</u>	<input checked="" type="checkbox"/>

TURNAROUND REQUIREMENTS: Standard (approx. 10 days)
 Next day _____ 2 Day _____ 5 Day _____
 Email Preliminary Results To: _____
 Working Days: _____

REPORT REQUIREMENTS:
 I. Routine Report _____
 II. Report (includes DUP, MS, MSD, as required) may be changed as samples) _____
 III. Date Validation Report (includes All Raw Data) _____
 Add 10% to invoice _____

INVOICE INFORMATION:
 Account _____ Y _____ N _____
 P.O. # _____
 Bill to: _____

SAMPLE RECEIPT:
 Total Containers: 45
 Temperature: 9.5
 Wet Ice Blue Ice

1. RELINQUISHED BY: [Signature]
 Signature: David Krizek
 Printed Name: David Krizek
 Firm: Turner Laboratories, Inc.
 Date/Time: 9/1/2021

2. RECEIVED BY: [Signature]
 Signature: [Signature]
 Printed Name: [Name]
 Firm: Turner Laboratories, Inc.
 Date/Time: 9/11/21

3. RELINQUISHED BY: _____

4. RECEIVED BY: [Signature]
 Signature: [Signature]
 Printed Name: [Name]
 Firm: Turner Laboratories, Inc.
 Date/Time: 9/11/21

*LEGEND
 DW = DRINKING WATER
 GW = GROUNDWATER
 SD = SOIL
 SG = SLUDGE
 SI = SOIL
 ST = STORMWATER
 WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:
 Compliance Analysis: Yes No
 ADEQ Forms: Yes No
 Mail ADEQ Forms: Yes No
 Custody Seals:
 Container Intact:
 Preservation Confirmation:
 Appropriate Head Space:
 COC/Labels Agree:
 Received Within Hold Time:

Stormwater Monitoring – Existing Conditions – Lab Sheet

July 1, 2021

Stormwater Monitoring – Existing Conditions

Frequency: As needed when sampled and when sufficient storm flows occur in washes (Field Parameters)						
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds		
General Measurements						
Temperature – field	° C (Celsius)	Oakton PC 450 Meter/Oakton pH Con 10 Meter	NA	NA		
pH – field	S.U.	Oakton PC 450 Meter/Oakton pH Con 10 Meter	NA	NA		
Conductivity – field	µS/cm	Oakton PC 450 Meter/Oakton pH Con 10 Meter	NA	NA		

Stormwater Monitoring – Existing Conditions – Lab Sheet

July 1, 2021

Stormwater Monitoring – Existing Conditions (continued)

Frequency: As needed when sampled and when sufficient storm flows occur in washes (Laboratory Parameters)						
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds		
General Measurements, General Chemistry						
Temperature – lab	° C	SM 4500 H+B	NA	NA		
pH – lab	S.U.	SM 4500 H+B	NA	NA		
Conductivity – lab	µS/cm	SW-846 9050A	2.0	NA		
Total dissolved solids	mg/L	SM 2540 C	20	NA		
Total suspended solids	mg/L	SM 2540 D	10	NA		
Turbidity	NTU	EPA 180.1	1.0	NA		
Hardness ¹	mg/L	SM 2340B/ calculation	13.0	NA		
Cation/Anion Balance	%	calculation	NA	NA		
Total alkalinity	mg/L	SM 2320 B	4.0	NA		
Bicarbonate	mg/L	SM 2320 B	4.0	NA		
Carbonate	mg/L	SM 2320 B	4.0	NA		
Hydroxide	mg/L	SM 2320 B	4.0	NA		
Sulfate	mg/L	EPA 300.0	0.50	NA		
Chloride	mg/L	EPA 300.0	0.5	NA		
Fluoride	mg/L	EPA 300.0	0.50	NA		
Nitrate (as nitrogen [N])	mg/L	EPA 300.0	0.10	NA		
Nitrite (as N)	mg/L	EPA 300.0	0.10	NA		
Nitrate + Nitrite (as N)	mg/L	EPA 300.0/ calculation	0.10	NA		
Total Nitrogen	mg/L	Total Nitrogen/ calculation	NA	NA		
Total Kjeldahl Nitrogen	mg/L	EPA 351.2	0.50	NA		
Calcium ¹	mg/L	EPA 200.7	2.0	NA		

Stormwater Monitoring – Existing Conditions – Lab Sheet

July 1, 2021

Stormwater Monitoring – Existing Conditions (continued)						
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds		
General Measurements, General Chemistry (continued)						
Magnesium ¹	mg/L	EPA 200.7	2.0	NA		
Sodium ¹	mg/L	EPA 200.7	0.5	NA		
Potassium ¹	mg/L	EPA 200.7	0.5	NA		
Ammonia (as N)	mg/L	SM 4500	0.5	NA		
Orthophosphate (as P)	mg/L	EPA 300.0	0.1	NA		
Silicon Dioxide ¹	mg/L	EPA 200.7	0.214	NA		
Frequency: As needed when sampled and when sufficient storm flows occur in washes (Laboratory Parameters)						
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds		
Dissolved Metals						
Aluminum	mg/L	EPA 200.7	0.1	NA		
Antimony	mg/L	EPA 200.8	0.001	NA		
Arsenic	mg/L	EPA 200.8	0.0005	NA		
Barium	mg/l	EPA 200.7	0.01	NA		
Beryllium	mg/L	EPA 200.7	0.001	NA		
Boron	mg/L	EPA 200.7	0.05	NA		
Cadmium	mg/L	EPA 200.7	0.001	NA		
Chromium – total ²	mg/L	EPA 200.7	0.01	NA		
Cobalt	mg/l	EPA 200.7	0.01	NA		
Copper	mg/L	EPA 200.7	0.01	NA		
Lead	mg/L	EPA 200.8	0.0005	NA		

Stormwater Monitoring – Existing Conditions – Lab Sheet

July 1, 2021

Stormwater Monitoring – Existing Conditions (continued)

Frequency: As needed when sampled and when sufficient storm flows occur in washes (Laboratory Parameters)

Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds
Dissolved Metals (continued)				
Manganese	mg/l	EPA 200.7	0.01	NA
Mercury	mg/L	EPA 245.1	0.0002	NA
Molybdenum	mg/l	EPA 200.7	0.01	NA
Nickel	mg/L	EPA 200.7	0.01	NA
Selenium	mg/L	EPA 200.8	0.0005	NA
Silver	mg/L	EPA 200.8	0.0001	NA
Thallium	mg/L	EPA 200.8	0.0001	NA
Zinc	mg/L	EPA 200.8	0.013	NA
Frequency: As needed when sampled and when sufficient storm flows occur in washes (Laboratory Parameters)				
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds
Total Recoverable Metals				
Aluminum	mg/L	EPA 200.7	0.1	NA
Antimony	mg/L	EPA 200.8	0.001	NA
Arsenic	mg/L	EPA 200.8	0.0005	NA
Barium	mg/l	EPA 200.7	0.01	NA
Beryllium	mg/L	EPA 200.7	0.001	NA
Boron	mg/L	EPA 200.7	0.05	NA
Cadmium	mg/L	EPA 200.7	0.001	NA
Chromium - total ²	mg/L	EPA 200.7	0.01	NA

Stormwater Monitoring – Existing Conditions – Lab Sheet

July 1, 2021

Stormwater Monitoring – Existing Conditions (continued)

Frequency: As needed when sampled whenever sufficient storm flows occur in washes (Laboratory Parameters)

Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds
Total Recoverable Metals (continued)				
Cobalt	mg/l	EPA 200.7	0.01	NA
Copper	mg/L	EPA 200.7	0.01	NA
Iron	mg/L	EPA 200.7	0.1	NA
Lead	mg/L	EPA 200.8	0.0005	NA
Manganese	mg/L	EPA 200.7	0.01	NA
Mercury	mg/L	EPA 245.1	0.0002	NA
Molybdenum	mg/l	EPA 200.7	0.01	NA
Nickel	mg/L	EPA 200.7	0.01	NA
Selenium	mg/L	EPA 200.8	0.0005	NA
Silver	mg/L	EPA 200.8	0.0001	NA
Thallium	mg/L	EPA 200.8	0.0001	NA
Uranium	mg/L	EPA 200.8	0.0001	NA
Zinc	mg/L	EPA 200.8	0.013	NA

Units: S.U. = standard units

µS/cm = micro Siemens per centimeter

mg/L = milligrams per liter

µg/L = micrograms per liter

NA = not applicable

NNS = no numeric standard

¹: Parameter to be analyzed as both dissolved and total.

² : Stormwater samples will be analyzed for total Chromium but the results will be compared to Chromium III (since there is currently no lab method for Cr III). Numeric standard listed in Table B-1 is for Chromium III.